

From: Salazar, Vicky
Sent time: 01/29/2014 03:02:35 PM
To: Magorrian, Matthew; Soderlund, Dianne
Cc: Allnutt, David; Reichgott, Christine; Holsman, Marianne; Szerlog, Michael; Shaw, Hanh; Tyler, Kendra; Dunbar, Bill; Parkin, Richard; Davies, Lauris; Pirzadeh, Michelle; Eaton, Thomas; Eckman, Sheila; Lane, Peg; Smith, Marla J.; Combes, Marcia; Field, Chris
Subject: AFE Itinerary and Current Briefing Documents -Updated 1/29/2014
AFE 2014 Itinerary for Dennis DRAFT 2014-1-29 V2.docx 0 - AFE 2014 Itinerary for Dennis.docx 0 - AFE2014 FINAL.pdf 0 - Feb 2014 Colonel Meeting - Final RA Briefing Sheet.docx 2 -Exploration Geotech_RA briefing paper_revised short version.docx 4 - Red Devil McLerran Jan 2014 update AFE.docx 4 - Red Devil Mine 2.pdf 4 - Red Devil Mine.pdf 5 - US Artic Research Commission from Marcia Combes.pdf 10 - Talking Points for Dennis SRF AK jan 14 final.docx 11 - Cumulative Combined Effects Analyses Final 1-28.docx 11 - EA process BC 1-28-14.docx

Hi everyone,

Attached is the final set of briefing documents for Dennis's trip to Alaska next week. We are still waiting for final review on the talking points which Bill Dunbar is providing. We are also still waiting for Update/Briefing – Arctic Spill Response/ARRT/ Unified Plan/Dispersants by Marcia Combes and/or Chris Field which will be added to the briefing book on Monday morning. Please send the final documents to Kendra, Vicky, Matthew Magorrian, Peg Lane and Marla Smith to ensure they make it into the appropriate books.

Matt and Peg or Marla, can you please prepare the briefing books with the attached materials? The annotated agenda document is for your reference. Thank you.

Vicky

Vicky Salazar
Sr. Energy and Sustainability Policy Advisor
US Environmental Protection Agency
Region 10, Oregon, Washington, Idaho and Alaska
206-553-1060, salazar.vicky@epa.gov

Sustainability aims to "create and maintain conditions under which man and nature can exist in productive harmony, and fulfill the social, economic, and other requirements of present and future generations of Americans." - NEPA, 1969

From: Magorrian, Matthew
Sent: Wednesday, January 29, 2014 10:02 AM
To: Soderlund, Dianne; Salazar, Vicky
Cc: Allnutt, David; Reichgott, Christine; Holsman, Marianne; Szerlog, Michael; Shaw, Hanh; Tyler, Kendra; Dunbar, Bill; Parkin, Richard; Davies, Lauris; Pirzadeh, Michelle
Subject: RE: AFE Itinerary and Current Briefing Documents - Confirming I have what I need

Just a reminder: Dennis is staying at the [Clarion Hotel](#) in Anchorage, not the Marriott.

Matt

From: Soderlund, Dianne
Sent: Wednesday, January 29, 2014 9:51 AM
To: Salazar, Vicky
Cc: Allnutt, David; Reichgott, Christine; Holsman, Marianne; Magorrian, Matthew; Szerlog, Michael; Shaw, Hanh; Tyler, Kendra; Dunbar, Bill; Parkin, Richard; Davies, Lauris; Pirzadeh, Michelle
Subject: RE: AFE Itinerary and Current Briefing Documents - Confirming I have what I need

Vicky – I have edited the table and noted where the documents belong – also a number of papers were not noted that have been sent down so I added them in –

Dianne Soderlund, Director

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Alaska Operations Office
(907) 271-3425
soderlund.dianne@epa.gov

From: Salazar, Vicky
Sent: Wednesday, January 29, 2014 6:03 AM
To: Soderlund, Dianne
Cc: Allnutt, David; Reichgott, Christine; Holsman, Marianne; Magorrian, Matthew; Szerlog, Michael; Shaw, Hanh; Tyler, Kendra; Dunbar, Bill; Parkin, Richard
Subject: AFE Itinerary and Current Briefing Documents - Confirming I have what I need

Hi Dianne, this is the current status of what I have for the AFE next week. There are still a few outstanding places where I am not sure if Dennis needs additional briefing documents or not. Can you please advise? Also, I note that Dennis's talk for RTOC isn't on my itinerary, can we add it?

Key places with questions are in **RED** on the itinerary.

Vicky

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Sustainability aims to "create and maintain conditions under which man and nature can exist in productive harmony, and fulfill the social, economic, and other requirements of present and future generations of Americans." - NEPA, 1969

From: Soderlund, Dianne
Sent: Tuesday, January 28, 2014 2:12 PM
To: Tyler, Kendra; Salazar, Vicky
Cc: Allnutt, David; Reichgott, Christine; Holsman, Marianne; Magorrian, Matthew; Szerlog, Michael
Subject: RE: ETPA briefing paper for Feb meeting with COE during AFE

As previously noted, a number of the topics in this summary are also pertinent to other meetings Dennis is having. ADEC and ADNR meetings will also touch on both 404 assumption, WOTUS rule, large projects and the BBWA. ADEC will also cover the wetland grant. Just wanted you to have this information as you put the book together. D

Dianne Soderlund, Director
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From: Szerlog, Michael
Sent: Tuesday, January 28, 2014 1:06 PM
To: Tyler, Kendra; Salazar, Vicky; Holsman, Marianne; Magorrian, Matthew
Cc: Allnutt, David; Soderlund, Dianne; Reichgott, Christine
Subject: ETPA briefing paper for Feb meeting with COE during AFE

Kendra, Vicky, Marianne, and Matt,

Enclosed is a comprehensive briefing paper for Dennis's meeting with Colonel Lestochi next week. It covers both 404 and NEPA projects/issues. Let me know if you have any questions.

Thanks

Michael J. Szerlog, Manager
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Environmental Protection Agency

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From: Soderlund, Dianne

Sent: Wednesday, January 22, 2014 5:00 PM

To: Szerlog, Michael; Reichgott, Christine

Cc: Allnutt, David; Holsman, Marianne; Tyler, Kendra; Salazar, Vicky

Subject: Meeting with COE during AFE

Michael and Teena,

As you know, Dennis will be meeting with Colonel Lestochi, Major DeRocchi and Karen Kochenbach on Tuesday 2/4, in the late morning after his BBWA AFE keynote. (David and I will be in the meeting) The topics include, but are not limited to, NPR-A, Nuiqsut Road, GMT-1, Waters of US, and State 404 Authorization. I am guessing we could add Fairbanks JD and Arctic Deep Draft Port to the list. For these and any others that occur to you we should have an updated briefing for Dennis. I don't think any one of these will be a deep dive, given we have an hour scheduled, but I know the expectation is there will be some paper for each topic. Would it be possible to get these by COB next Wednesday? Thanks

Dianne Soderlund, Director

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Alaska Operations Office

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2014 Alaska Forum on the Environment Itinerary
Dennis McLerran – **DRAFT with NOTES January 29, 2014, 3pm**

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<u>2/2/14 - Sunday</u>		<u>Ref Num</u>	<u>Briefing Material</u>	<u>Notes/Comments</u>
9:00 p.m.	Arrive Alaska via AS 109			
	Taxi to Marriott			
	General Info Briefing Docs	0	Itinerary for Dennis AFE Agenda Feb 2014 Colonel Meeting - Final RA Briefing Sheet.docx (also under 1, 2, 8)	
<u>2/3/14 – Monday</u>				
8:30 am	Pick up Dennis from Marriott			
9:00 – 10:00 am	AOO Staff Meeting - confirmed			
10:15 – 11:00 am	Meet w/ Ed Fogels/Joe Balash/ @ADNR Suite 1400 - confirmed	1	Feb 2014 Colonel Meeting - Final RA Briefing Sheet.docx	
11:15 – 11:45 am	Travel to AFE/Register			
11:45 – 12:15 pm	Listen to Senator Begich Remarks at AFE- confirmed			
12:15 – 12:45	Meet w/ Senator Begich – confirmed	2	Exploration Geotech_RA briefing paper_revised short version.docx Feb 2014 Colonel Meeting - Final RA Briefing Sheet.docx	Topic BBWA, 404 assumption and Arctic permitting briefing (from Hanh)perhaps dispersants
12:45 – 1:30 pm	Lunch			
1:30 – 1:45 pm	Prep time			
1:45 – 2:00 pm	Travel to ADN			cancelled
2:00 – 3:00 pm	Meet w/ADN Editorial Board?			
3:00 – 3:15 pm	Travel to AOO			
3:15 – 4:00 pm	Meet w/Bud Cribley, BLM Red Devil/NPRA GMT-1/Air MOU –	4	<i>Red Devil Mine email.pdf</i> <i>Red Devil Mine 2nd email.pdf</i>	

	confirmed		<i>Red Devil Mine Jan Update.pdf</i>	
4:00 – 5:00 pm	Meet w/ Cheryl Rosa @AOO – Arctic Research Commission – confirmed	5	<i>US Arctic Research Commission from Marcia Combes.pdf</i>	
5:00 pm – 7:00 pm	Break @ Hotel			
7:15 pm	Dinner w/ Allnutt, Kelly, Soderlund at ORSO			
2/4/14 – Tuesday				
7:30 am	Pick up Dennis @ Marriott			
7:45 am	Arrive at Dena'ina			
8:00 – 8:45 am	AFE Keynote & PEYA Award – confirmed	6	Talking Points, Dennis is currently reviewing	Being prepared by B. Dunbar
8:45 – 9:00 am	Press availability			
9:00 – 10:15 am	Update on BBWA-McLerran/Parkin/Fordham - Tubughneng 5 – confirmed	7	No talking points needed. Sheila Eckman will be speaking.	
10:15- 10:30 am	Travel to AOO			
10:30 – 11:30 am	Meet with COE – NPR-A/GMT-1/Nuiqsut Road/Waters of US/State 404 Authorization – confirmed Col. Lestochi/Maj. DeRocchi/Kockenbach/Allnutt/Szerlog	8	Feb 2014 Colonel Meeting - Final RA Briefing Sheet.docx	
11:30 – 12:15 pm	Prep Time			
12:15 – 1:00 pm	Lunch			
1:00 – 2:00 p.m.	Update/Briefing – Arctic Spill Response/ARRT/ Unified Plan/Dispersants – confirmed C. Field/ /M. Combes/R. Albright	9	M. Combes and C. Field will provide on Monday. Currently in a meeting that will impact the briefing document.	

2:00-2:30 pm	Break			
2:15 – 3:15 pm	Meet w/ Com. Hartig and Dep. Kent – confirmed	10	Talking Points for Dennis SRF AK jan 14 final.docx	404 brfg summary/arctic permitting from H. Shaw/Dispersant s/ARRT
3:15 – 3:30 pm	Break			
3:30-4:30 p.m.	Meet w/Environment Canada – P. Klukner/K.Woo (ADEC also invited) - confirmed	11	EA process BC 1-28-14.docx Cumulative Combined Effects Analyses Final 1-28.docx	Cumulative Combined Effects Transboundary Mining (from Cindi Godsey)
5-6pm	ROTC Intro to Janet McCabe	12	Talking Points being reviewed by Bill Dunbar	
Dennis to Depart Tuesday evening for Seattle – Dianne will take him to airport.				
All meetings at AOO unless otherwise noted/D. Soderlund to attend all meetings.				

2014 Alaska Forum on the Environment Itinerary
Dennis McLerran – DRAFT 1/29/14

2/3/14 - Sunday

12:23 am Arrive Alaska via AS 731
Taxi to Clarion

2/3/14 – Monday

8:00 am Pick up Dennis from Clarion/walk to AOO
8:15-8:45 am Trip planning/pre-brief w/ Dianne - **confirmed**
9:00 – 10:00 am AOO Staff Meeting - **confirmed**
10:15 – 11:00 am Meet w/ Ed Fogels/Joe Balash/
@ADNR Suite 1400 - **confirmed**
11:15 – 11:45 am Travel to AFE/Register
11:45 – 12:15 pm Listen to Senator Begich Remarks at AFE- **confirmed**
12:15 – 12:45 Meet w/ Senator Begich – **confirmed (Bill is contact)**
12:45 – 1:45 pm Lunch
1:45 – 2:00 pm Travel to AOO
1:45 – 3:00 **Prep time**
3:00 – 4:00 pm Meet w/Bud Cribley, BLM
Red Devil/NPRA GMT-1/Air MOU - **confirmed**
4:00 – 5:00 pm Meet w/ Cheryl Rosa @AOO – Arctic Research
Commission – **confirmed**
5:00 pm – 7:00 pm Break @ Hotel
7:15 pm Dinner w/ Allnutt, Kelly, Soderlund – Orso - **confirmed**

2/4/14 – Tuesday

7:30 am Pick up Dennis @ Marriott
7:45 am Arrive at Dena'ina
8:00 – 8:45 am AFE Keynote & PEYA Award - **confirmed**
8:45 – 9:00 am Press availability
9:00 – 10:15 am Update on BBWA-McLerran/Parkin/Fordham -
Tubughneng 5 - **confirmed**
10:15- 10:30 am Travel to AOO
10:30 – 11:30 am Meet with COE – NPR-A/GMT-1/Nuiqsut Road/Waters of
US/State 404 Authorization - **confirmed**
Col. Lestochi/Maj. DeRocchi/Kockenbach/Allnutt/Szerlog
11:30 – 12:15 pm Prep Time **Potential Nunamta Mtg**

12:15 – 1:00 pm	Lunch
1:00 – 2:00 p.m.	Update/Briefing – Arctic Spill Response/ARRT/ Unified Plan/Dispersants - confirmed C. Field/M. Everett/M. Combes/ R. Albright
2:00-2:30 pm	Break
2:15 – 3:15 pm	Meet w/ Com. Hartig and Dep. Kent – confirmed
3:15 – 3:30 pm	Break
3:30-4:30 pm	Meet w/Environment Canada – P. Kluckner/K.Woo (ADEC also invited) – confirmed
4:30 – 5:00 pm	Travel to AFE
5:00 – 6:00 pm	RTOC Evening Event – confirmed
6:00 pm	Depart for airport - confirmed – DLS to drive
7:10 pm	Depart AS 120 – Arr Sea 11:30 pm

All meetings at AOO unless otherwise noted/D. Soderlund to attend all meetings.

2014



Alaska Forum on the Environment

February 3-7, 2014

Dena'ina Convention Center

Anchorage, Alaska



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Earn one college credit this year at the 2014 Alaska Forum on the Environment through University of Alaska Fairbanks Bristol Bay Campus. The course introduces many of the ways science and public policy is presented across disciplines and how environmental data is collected and used. Course participants interact with environmental studies experts and policy makers from across Alaska by participating in AFE sessions and discussions. To earn credit participants must actively participate in conference activities for at least 3 days.

This course fee is being offered at a reduced cost of \$75 (normally \$168) for registered AFE Participants!

Information and course materials are provided at the UAF Bristol Bay Booth #27 or inquire at the AFE Registration Table. Contact at the conference: Todd Radenbaugh, Tom Marsik, Adam Kane or Michael Golub.



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About the Alaska Forum on the Environment - A 501(c)(3) Non-Profit

Our Organization:

The Alaska Forum, Inc. was initially formed to support an annual education event, the Alaska Forum on the Environment, which celebrates its 16th year in 2014. This widely recognized event began in 1990 as the Alaska Federal Facility Environmental Roundtable; an annual conference focused on contaminants, hazardous waste cleanup, hazardous materials management, pollution prevention, etc., at federal facilities. It was expanded by an agreement called the Statement of Cooperation between the leadership of environmental regulators, military departments, and federal agencies. The Alaska Forum on the Environment—The Alaska Forum, Inc. operates as a 501(c)(3) non-profit organization to support this annual educational event and fulfill our mission to promote a healthy environment through communication and education.

Our Process:

The Alaska Forum on the Environment resulting from the efforts of a diverse group of organizations that serve as our Planning Committee, seeks to provide an open exchange of ideas and information in a respectful and courteous atmosphere. The structure of the event allows participants the opportunity to reach a greater understanding of the issues and of each other: rural and urban; industry and private; agency and public; students and scholars; ...and those who are just plain interested in the environment!

The dedicated support of volunteers using a team approach, which is respectful of the diversity of opinions and perspectives of all Alaskans, creates a successful event.

We actively seek agenda input throughout the planning process. While most topics are informational, others present more complex issues and challenges facing environmental, corporate, and regulatory agencies in Alaska. We actively work to best address all issues including those that are complex by structuring sessions to encourage problem solving and present diverse perspectives and alternative viewpoints. We encourage the opportunity for an informed and respectful dialogue with all of our presenters.

The Alaska Forum on the Environment and other Alaska Forum programs and projects do not take political or advocacy positions. The result is a hugely diverse agenda, with over 130 Breakout Sessions and 7 Keynote Events. Topics and the presenters range from Alaska's communities to federal, state and tribal government agencies; international organizations and governments; to those specialized in technical science and the environment.

If you are interested in helping to shape the agenda of the Alaska Forum on the Environment, please contact us: your support is welcome!

Our Funding:

The Alaska Forum on the Environment is a 501(c)(3) non-profit organization. Approximately 30% of our funding is provided in voluntary contributions and sponsorships by our leadership partners. Our leadership partners are organizations that invest both staff resources and funding in the Alaska Forum on the Environment. 10% of our funding is invested by leading Alaskan industries and businesses. The remaining 60% of event funding is derived directly from participants through event registration fees. We limit organizational and sponsor contributions to ensure that our funding sources represent the diversity we strive to achieve within the Alaska Forum on the Environment.

Our Commitment:

The Alaska Forum on the Environment actively solicits partners that can provide constructive input in our team approach. We value the individuals and the organizations that work with us in a statewide spirit of cooperation to achieve this premier event. We believe that we can find positive ways to maximize environmental benefits through cooperative approaches, partnerships, and the sharing of information and ideas in a respectful forum. We believe that effective communication can provide the foundation for Alaska's environmental community. Our mission is to promote a healthy environment through communication and education; and we welcome support from those who share in this goal.

The Alaska Forum on the Environment Mission

"Alaskans working together to promote a clean, healthy environment through communication and education." The Alaska Forum and our programs or projects will not take political or advocacy positions. The Alaska Forum works to promote a more productive and efficient relationship between government agencies, businesses, organizations, tribes, and the public by:

- developing a more common understanding and educational foundation;
- providing opportunity for the exchange of information and experiences; and
- understanding the diversity of opinions and concerns of others.

Exhibitors and Booth Locations (See Floorplans on pg. 50)

Accutest Labs
1741 West University Drive, Suite 149
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Beth Proffitt, bethp@accutest.com
Space #12

Alaska Association of Environmental Professionals, HDR Alaska, Inc.
2525 C Street, Suite 305
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Anna Kohl, anna.kohl@hdrinc.com
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Alaska Center for Climate Assessment and Policy (ACCAP)
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Fairbanks, Alaska 99709
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Tina Buxbaum,
tmbuxbaum@alaska.edu
Space #03

Alaska Coastal Impact Assistance Program
Alaska Dept. of Natural Resources, Office of Project Management and Permitting
400 Willoughby Ave, Suite 400
Juneau, Alaska 99811
907-465-3177
Sylvia Kreel, sylvia.kreel@alaska.gov
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Alaska Native Tribal Health Consortium
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Desirae Roehl, droehl@anthc.org
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Alaska RiskMAP Program
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Katie Cruthers, katie.cruthers@alaska.gov
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Alaska SeaLife Center
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907-224-6889
Laurie Morrow, lauriem@alaskasealife.org
Space #07

Alaska Trails
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Anchorage, Alaska 99510
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Steve Cleary, steve.cleary@alaska-trails.org
Space #05

Alaska Wilderness League
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Betsy Beardsley, betsy@alaskawild.org
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Exhibitors and Booth Locations

Geos Institute
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Green Star
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US Department of Agriculture, National
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US Fish & Wildlife Service
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Barbara Schrader, bschrader@fs.fed.us
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Mike Grundberg, mgrundberg@yritwc.org
Space #16

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CH2M Hill
ConocoPhillips
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US Air Force
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US Department of the Interior
US Environmental Protection Agency, Region 10

US Fish & Wildlife Service
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Monday, February 3

MORNING

7:30 AM - 9:00 AM

- ☐ Registration
Registration Area, Tikahtnu A&B

8:00 AM - 9:00 AM

- ☐ Morning Music: Michael Gorder On Acoustic
Tikahtnu A&B

9:00 AM - 10:15 AM

- ☐ OPENING KEYNOTE EVENT: Ron Black, Entrepreneur
Tikahtnu A&B

10:30 AM - 11:45 AM

- ☐ Communicating Effectively: Oil And A Changing Arctic
Kahtnu 1
- ☐ Elements Of A Modern Hard-Rock Mine
Kahtnu 2
- ☐ Marine Debris Outreach
Tubughnenq 3
- ☐ Ocean Science On The Outer Continental Shelf
K'enahtnu Boardroom
- ☐ About LEO – The Local Environmental Observer
Network - 2014 Update
Tubughnenq 5
- ☐ Science Of Climate Change: Why We Are Seeing What
We Are Seeing
Tikahtnu E
- ☐ Using A Generic UFP-QAPP At A Large Complex
Contaminated Site - The Galena Airport
Tikahtnu D
- ☐ Using Novel Autonomous Technology To Study And
Monitor The Arctic Environment From Millimeter-Scale
Tikahtnu C
- ☐ Youth And Adult Environmental Project Showcase
(Part 1 of 2)
Tubughnenq 4

AFTERNOON

12:00 PM - 1:45 PM

- ☐ NOON KEYNOTE EVENT: Chad Pregracke, Living Lands
And Waters With Welcoming Remarks By Senator Mark
Begich
Tikahtnu A&B

2:00 PM - 3:15 PM

- ☐ Abiotic, Biotic And Biogeochemical Treatment Of
Chlorinated Organics
K'enahtnu Boardroom
- ☐ How Landfill Paperwork Is Useful For More Than Origami!
Kahtnu 1
- ☐ Learning The Basics And Getting Started: A Session For
New Indian General Assistance Program Staff (Part 1 of 2)
Tikahtnu C
- ☐ Living Lands & Waters-Inspiring Others To Take Action...
One Piece Of Garbage At A Time!
Tikahtnu D
- ☐ Marine Debris General Topics (Part 1 of 2)
Tubughnenq 3
- ☐ Relationship-Scale Conservation
Kahtnu 2
- ☐ The Power Of A Flower: Developing Community Monitoring
Programs To Understand Invasive Plant Impacts
Tubughnenq 4
- ☐ Two Climate Change Case Studies: Increased Water
Temperature And Impacts To Yellow Cedar
Tikahtnu E
- ☐ Wood Heat For Rural Alaska Homes: Your Choices
Determine Heating Efficiency, Health & Safety
Tubughnenq 5

3:30 PM - 4:45 PM

- ☐ Activation Methods for Persulfate Used For In-Situ
Chemical Oxidation (ISCO)
K'enahtnu Boardroom
- ☐ Clean Energy Policy
Kahtnu 1
- ☐ Going Geospatial: Adventures In Mapping For
Community Programs
Tubughnenq 4
- ☐ Learning The Basics And Getting Started: A Session For
New Indian General Assistance Program Staff (Part 2 of 2)
Tikahtnu C
- ☐ Marine Debris General Topics (Part 2 of 2)
Tubughnenq 3
- ☐ Marine Mammal Consumption In Alaska: Contaminants,
Benefits And Risks
Tikahtnu D
- ☐ Red Devil Mine: A 2014 Action To Prevent Historic Tailings
From Migrating To The Kuskokwim River
Kahtnu 2
- ☐ Solid Waste Problem Solving From The Ground Up -
Panel Discussion
Tubughnenq 5

Alaska Forum on the Environment
Registration Services and all Keynote Events
will be located at the Dena'ina Convention Center,
TIKAHTNU (COOK INLET) BALLROOM, 3rd Floor

At a Glance

AGENDA

Tuesday, February 4

MORNING**8:00 AM - 8:45 AM**

- ☐ MORNING KEYNOTE EVENT: Dennis McLerran, Administrator, EPA Region 10
Tikahtnu A&B

9:00 AM - 10:15 AM

- ☐ Assessing Risk Perception And Community Disaster Resilience
Kahtnu 1
- ☐ Environmental Cleanup Response To The 2013 Galena Flood
Tikahtnu D
- ☐ EPA Tribal Coordinators: Regional Roundtable Discussion
Tikahtnu C
- ☐ High School Science Programs For Rural Students
Tubughnenq 4
- ☐ How To Prepare For An Occupation In Sustainable Energy
Kahtnu 2
- ☐ Update On The US Environmental Protection Agency's Bristol Bay Assessment
Tubughnenq 5
- ☐ Invasive Species In Rural Alaska (Part 1 of 2)
K'enakatnu Boardroom
- ☐ Statewide Marine Debris Removal Efforts (Part 1 of 2)
Tubughnenq 3
- ☐ What Do Alaskans Need? A Review Of Documents Addressing Research Needs Related To Climate Change
Tikahtnu E

10:30 AM - 11:45 AM

- ☐ Ecosystem Assessments And Major Policy Failures
Kahtnu 1
- ☐ Ensuring Field And Lab Competency Under Indian General Assistance Program Baseline Monitoring Projects
Tikahtnu C
- ☐ How To Talk To Your Community About Wood Smoke Risks And Mitigation Strategies
Tubughnenq 5
- ☐ How Will Climate Change Affect Cultural Resources And Historic Properties?
Tikahtnu E
- ☐ Hydraulic Fracturing Basics
Kahtnu 2
- ☐ Invasive Species In Rural Alaska (Part 2 of 2)
K'enakatnu Boardroom
- ☐ Statewide Marine Debris Removal Efforts (Part 2 of 2)
Tubughnenq 3
- ☐ The Pebble Project: Schedule, Social Impacts And Mining Issues
Tikahtnu D
- ☐ Youth And Adult Environmental Project Showcase (Part 2 of 2)
Tubughnenq 4

AFTERNOON**2:00 PM - 3:15 PM**

- ☐ Adapting To Climate Change In The Kuskokwim River Watershed
Tikahtnu E
- ☐ Commercial Building Energy Efficiency As A Catalyst For Sustainability
Kahtnu 1
- ☐ Creating Sustainable Communities
Kahtnu 2
- ☐ Erosion Responses And Resources
Tikahtnu D
- ☐ National Park Service In Alaska: What Is It And Why Is Their Work Important To You?
Tubughnenq 5
- ☐ Susitna-Watana Hydro Project: Panel Discussion
K'enakatnu Boardroom
- ☐ Tribal Water Quality Projects
Tikahtnu C
- ☐ Tsunami Marine Debris Updates
Tubughnenq 3
- ☐ Wildlife Tracking And Trail Cameras!
Tubughnenq 4

3:30 PM - 4:45 PM

- ☐ Arctic Ecosystem Integrated Survey: A Marine Survey Of The Northern Bering & Chukchi Seas
Tubughnenq 3
- ☐ Assessing Wetland Functions & Services For National Resource Conservation Service
Kahtnu 1
- ☐ Fukushima Radiation- Putting Things Into Perspective
Tikahtnu E
- ☐ Essential Ingredients For Obtaining Federal Funding: Indian General Assistance Program
K'enakatnu Boardroom
- ☐ Integrating Traditional Knowledge, Faith And Science For A Thriving Environment And Community
Tikahtnu C
- ☐ Permitting Alaska's Hard-Rock Mines
Kahtnu 2
- ☐ SNOWY: A Mixed-Methods Approach To Climate Change On The Lower Yukon River
Tikahtnu D
- ☐ Sustainable Living: Rhodiloa Rosea Potential For High Latitude Agriculture And Sustainable Firewood
Tubughnenq 5
- ☐ Tips For Developing A Successful Community Environmental Program For Teens
Tubughnenq 4

EVENING**5:00 PM - 6:30 PM**

- ☐ EVENING SOCIAL EVENT: Hosted By The EPA Regional Tribal Operations Committee
Tikahtnu A&B

Wednesday, February 5

MORNING

8:00 AM - 8:45 AM

- ☐ MORNING KEYNOTE EVENT: Dr. Thomas P. Quinn, University of Washington
Tikahtnu A&B

9:00 AM - 10:15 AM

- ☐ A Perspective: The Case For Less Emphasis On Sub-Slab Data For The Vapor Intrusion Pathway
Kahtnu 1
- ☐ AKMAP Survey Results From Arctic Coastal Plains Surveys (Wetlands & Lake)
Tubughnenq 3
- ☐ Emergency Preparedness For Rural Residents And Communities To Earthquakes, Wildfire & Extreme Weather
Tubughnenq 4
- ☐ Environmental Restoration Efforts At Federal Sites In Alaska
Tikahtnu C
- ☐ Mining In Mongolia: Oyu Tolgoi
Kahtnu 2
- ☐ Point Thomson Project Update
Tikahtnu D
- ☐ Roads To Resources And Sustainable Economies In Alaska
Kenakatnu Boardroom
- ☐ Shipping Out Hazardous And Potentially Harmful Materials From Rural Alaska - Success Stories
Tubughnenq 5
- ☐ The Role Of Estuaries In Ecosystem Health In Alaska
Tikahtnu E

10:30 AM - 11:45 AM

- ☐ Kodiak's Renewable Energy Revelation
Kahtnu 1
- ☐ Reciprocating Internal Combustion Engines, Boilers and Incinerators
Tubughnenq 3
- ☐ Alaska Wetlands Permitting (404) Program Development - Why, What, When And How
Tubughnenq 4
- ☐ Alaskan Estuaries: What We Know And Need To Know
Kenakatnu Boardroom
- ☐ Amchitka Underground Nuclear Test Site Monitoring
Tikahtnu C
- ☐ Climate Adaptation Strategies: An Intergenerational Effort To Combine Indigenous Knowledge & Science
Tikahtnu E
- ☐ Experimental Use Of Tundra Sod For Rehabilitation At The Point Thomson Project
Tikahtnu D
- ☐ Fail To Plan - Plan To Fail: Seasonal Planning For Rural Alaska Landfills
Tubughnenq 5
- ☐ Regulating Coal Mines
Kahtnu 2

AFTERNOON

2:00 PM - 3:15 PM

- ☐ Beyond Indian General Assistance Program: Moving From Capacity Building To Implementation
Tikahtnu C
- ☐ Building Environmental Occupation Endorsements For A Rural Workforce
Kenakatnu Boardroom
- ☐ Climate Change Adaptation: Linking Alaskan Communities With Resources To Help Meet Challenges
Tikahtnu E
- ☐ DEC Water Quality Standards Triennial Review
Tubughnenq 4
- ☐ Film Festival
Tikahtnu D
- ☐ Hands On Solid Waste Presentation
Tubughnenq 5
- ☐ How to Use Department Of Environmental Conservation Data for Environmental Mapping
Kahtnu 1
- ☐ Tribal Consultation - Agency Consultation Processes And Projects
Kahtnu 2
- ☐ Unmanned Aircraft Systems In Alaska And The Arctic
Tubughnenq 3

3:30 PM - 4:45 PM

- ☐ Alaska Water Quality Standards Antidegradation Policy Implementation Update
Kahtnu 1
- ☐ Fieldscope Database For Social Networking, Community Research & Environmental Data Mapping
Tubughnenq 4
- ☐ Film Festival
Tikahtnu D
- ☐ Indian General Assistance Program (GAP) Roundtable-- Mongolia To Alaska: A Young Woman's Journey
Tikahtnu C
- ☐ How Shaktoolik Plans To Survive Flooding And Erosion In The Face Of A Changing Climate
Kenakatnu Boardroom
- ☐ Our Work, Our Life: Fisheries, Seafood And Maritime Careers In Alaska
Tubughnenq 3
- ☐ Purchasing Heavy Equipment - Things To Look Out For When Selecting
Tubughnenq 5
- ☐ Region 10 US Environmental Protection Agency's Adaptation Planning
Tikahtnu E
- ☐ Tribal Consultation - How Tribal Governments Can Make Consultation More Effective
Kahtnu 2

At a Glance

AGENDA

At a Glance

AGENDA

Thursday, February 6

MORNING

8:00 AM - 11:45 AM

- ☐ Statement Of Cooperation - Executive Steering Committee Meeting
K'enahtnu Boardroom

8:00 AM - 8:45 AM

- ☐ MORNING KEYNOTE EVENT: Craig Welch, Environmental Reporter For The Seattle Times
Tikahtnu A&B

9:00 AM - 10:15 AM

- ☐ Basic Emergency Management Principles
Kahtnu 1
- ☐ Bedbugs In Alaska
Kahtnu 2
- ☐ Dispersant Use Policy In Alaska
Tubughnenq 5
- ☐ Documenting Subsistence Uses And Resources
Tubughnenq 3
- ☐ Film Festival
Tikahtnu D
- ☐ Out-Of-State And Natural Contributions To Baseline Atmospheric Mercury Deposition In Alaska
Tubughnenq 4
- ☐ Problems And Solutions For Dust On Village Roads
Tikahtnu C
- ☐ Traditional Observations Of Climate Change
Tikahtnu E

10:30 AM - 11:45 AM

- ☐ AK Regional Response Team: Alaska Unified Plan Updates And Tribal Government Interaction Guidelines
Tubughnenq 5
- ☐ Creating Safe And Healthy Tribal Homes
Tikahtnu C
- ☐ Film Festival
Tikahtnu D
- ☐ Fish In Alaska: How Environmental Contaminants Impact Them & How Their Health Impacts Our Health
Tikahtnu E
- ☐ How Are Your Berries?
Kahtnu 1
- ☐ Managing Household Hazardous Waste & RCRA Regulations As They Pertain To Universal Waste & Used Oil
Kahtnu 2
- ☐ Renewable Energy Projects In Alaska
Tubughnenq 3
- ☐ Small Community Emergency Response Plan (SCERP)
Tubughnenq 4

AFTERNOON

12:00 PM - 1:45 PM

- ☐ NOON KEYNOTE EVENT: John Huston, Explorer
Tikahtnu A&B

2:00 PM - 3:15 PM

- ☐ Alaska Science Catalog & The Southeast Alaska GIS Library: Working To Meet Your Geospatial Needs!
Kahtnu 1
- ☐ Arctic Air Quality Workshop
Kahtnu 2
- ☐ Beginning A Conversation About Climate Change: A Report Out On Community Outreach
Tikahtnu E
- ☐ Disposal Options For Construction And Demolition Waste In Rural Alaska
Tubughnenq 5
- ☐ Hazard Mitigation And Rural Community Resilience
Tubughnenq 3
- ☐ Methyl Mercury In Subsistence Pike And Burbot In Western Alaska
Tubughnenq 4
- ☐ Successful Tribal Environmental Demonstration Projects Under The Indian General Assistance Program
Tikahtnu D

2:00 PM - 4:45 PM

- ☐ Statement Of Cooperation - Executives & Elders Talking Circle
Tikahtnu C

3:30 PM - 4:45 PM

- ☐ A Meaningful Role? Understanding A Key Phrase In The National Interest Lands Conservation Act
Kahtnu 1
- ☐ Bringing Science Home To Your Community
Kahtnu 2
- ☐ Internet-Connected Sensors And Thermal Infrared Technology For Environmental Data Collection
Tubughnenq 3
- ☐ Overview Of The Northwest Arctic Borough Subsistence Mapping Project
Tubughnenq 4
- ☐ Stump The Chumps
Tubughnenq 5
- ☐ The Science, Culture And Policy Of Tribal Environmental Contaminant Exposure And Health
K'enahtnu Boardroom
- ☐ Tsunami Awareness
Tikahtnu D
- ☐ Valuing Ecosystem Services In The Mat-Su Borough
Tikahtnu E

Friday, February 7**MORNING****8:00 AM - 4:45 PM**

- ☐ 8-Hour Rural Alaska Landfill Administrator (RALA)
Training for Village Administrators
Tubughnenq 3
- ☐ Healthy Home Activities Across Alaska: Local Perspectives
On What Works
Tubughnenq 5

8:00 AM - 5:00 PM

- ☐ HAZWOPER
Tikahtnu E

8:00 AM - 11:45 AM

- ☐ Why Geotourism?
Tubughnenq 4

8:30 AM - 12:30 PM

- ☐ Oil Spill Recovery Institute Advisory Board Annual
Meeting
K'enakatnu Boardroom

9:00 AM - 11:00 AM

- ☐ Community Based Monitoring: Furthering The Discussion
On Best Practices For Alaska
Kahtnu 1

9:00 AM - 11:45 AM

- ☐ Film Festival
Tikahtnu D

9:00 AM - 4:30 PM

- ☐ Overview Of The Mining Industry: Property Rights,
Environment, Economics And Issues
Kahtnu 2

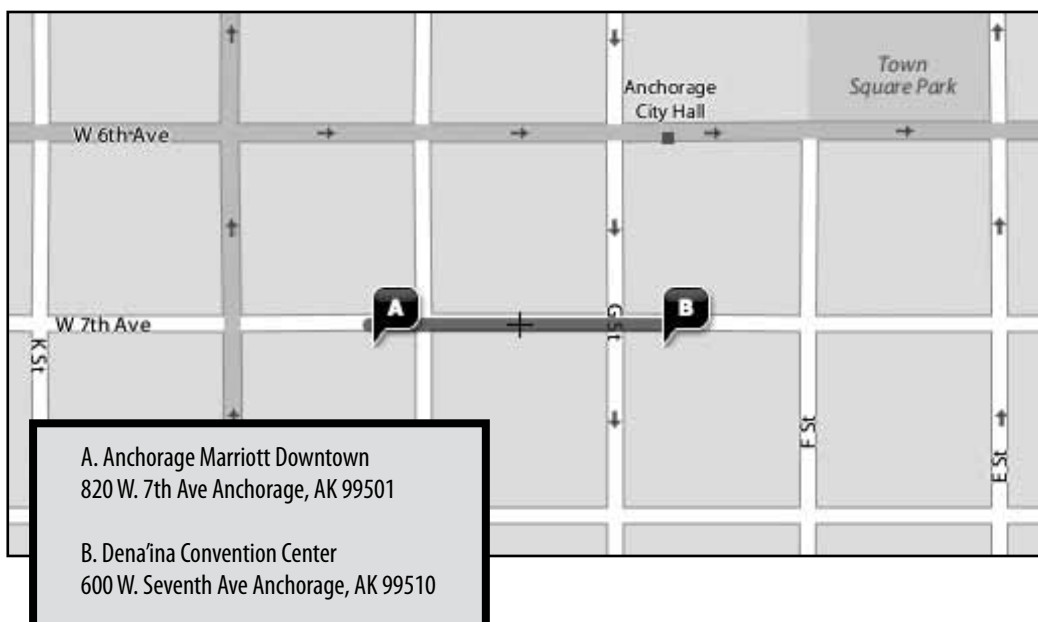
AFTERNOON**1:00 PM - 2:30 PM**

- ☐ Indian General Assistance Program Closing Session
Tikahtnu C

NOTES:

Alaska Forum on the Environment
Registration Services and all Keynote Events
will be located at the Dena'ina Convention Center,
TIKAHTNU (COOK INLET) BALLROOM, 3rd Floor

NOTES:



2014 Alaska Forum on the Environment

Detailed Agenda

NOTES:

Alaska Forum on the Environment
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TIKAHTNU (COOK INLET) BALLROOM, 3rd Floor

2014

February 3

MONDAY

7:30 AM - 9:00 AM

Registration**Tikahtnu A&B**

Registration for Alaska Forum on the Environment Sessions and Keynote Events.

8:00 AM - 9:00 AM

MORNING MUSIC EVENT**Tikahtnu A&B****Michael Gorder On Acoustic**

Grab your morning coffee and listen to the acoustic music of local talent Michael Gorder.

9:00 AM - 10:15 AM

**OPENING KEYNOTE EVENT****Tikahtnu A&B****Ron Black, Entrepreneur**

Harvesting the Wisdom of Community: Make the most of your attendance at the 2014 Alaska Forum on the Environment by starting your

week with keynote speaker Ron Black. "Our community is our strength," Ron says. "In today's interconnected world, communities are essential as individuals unite in respectful, cooperative approaches to the issues and initiatives affecting us all." Ron will help us understand what each of us can do this week to share, to listen, and to build relationships that will enable us to harvest the wisdom of all our Alaskan Forum community members both today and into the future. About Ron Black: "All of my ideas... at least the really good ones... have come from people I've had the good fortune to meet!" From running a small construction company on the Wind River Reservation in Wyoming to a worldwide speaking career, the common denominator in his diverse career has been the ability to listen, to learn, and to share good ideas. Ron is the founder of several businesses, a four-time turnaround consultant, former Fortune 500 executive, and author of two books published by Penguin Putnam and MacMillan Press. He provides keynote programs and has worked with many diverse groups throughout the US and Canada, and in Australia, Russia, Colombia and Brazil, including the Associated General Contractors of Alaska, US Fish & Wildlife Service, Jicarilla Apache Nation, Tooh Dineh Industries, and the US Environmental Protection Agency.

10:30 AM - 11:45 AM

About LEO – The Local Environmental Observer**Network - 2014 Update****Tubughnenq 5**

This session provides an overview about the Local Environmental Observer (LEO) Network, what it is, how it works and update from the observations posted from LEO Network members in Alaska and Canada from 2013. It is a great session for anyone interested in LEO, environmental change impacts and community based monitoring programs in the north.

Presenter: Michael Brubaker, Alaska Native Tribal Health Consortium

Moderator: JR Herbst, US Environmental Protection Agency

Communicating Effectively: Oil And A Changing Arctic Kahtnu 1

When an oil spill occurs, are you prepared to talk to the public about the complex and thoughtful processes that went into preparing for exploration, extraction and potential hazards? Our online module trains informal science educators to discuss oil use, risks and spill remediation - especially as they relate to the increasingly accessible Arctic region.

Presenters: Laurie Morrow and Jeff Dillon, Alaska SeaLife Center

Moderator: Paul Gill, US Coast Guard

Elements Of A Modern Hard-Rock Mine**Kahtnu 2**

The course uses a visual tour of an open-pit and an underground gold mine to explain the elements of a modern hard-rock mine. The session will highlight the major environmental issues, particularly water handling and water quality, facing mining in Alaska. Participants should come out of the session with an understanding of the function of major mine facilities; the process by which ore becomes metal and tailings; typical processes for using water and controlling water quality; and important environmental issues particularly water quality.

Presenter: Bob Loeffler, University of Alaska

Moderator: Cindi Godsey, US Environmental Protection Agency

Marine Debris Outreach**Tubughnenq 3**

This session will present on various outreach and education efforts focusing on marine debris in the state of Alaska.

Presenters: Beth Trowbridge, Center for Alaska Coastal Studies; Karen Larsen, Artist; Sue Goodglick, Alaska Department of Fish and Game; Julie Decker, Anchorage Museum

Moderator: Erika Ammann, National Oceanic and Atmospheric Administration

Ocean Science On The Outer Continental Shelf K'enahtnu Boardroom

There is a treasure trove of science and analysis available on the web; so great a treasure that people can be intimidated by the search for information. This session will focus on finding existing environmental science on the web with a tour of various public websites and pages that communicate ocean science. Presenter Bill Swears will walk participants through the maze of links and menus to reach publicly available reports, environmental analyses and research papers concerning ocean science analyses on the offshore continental shelf.

Presenter: William Swears, Bureau of Ocean Energy Management

Science Of Climate Change: Why We Are Seeing What We Are Seeing

Tikahtnu E

The author takes an ecological approach to explain climate change by looking at the basic processes of the earth and following the flow of energy in the human and natural world from 500 million years ago to the present. Utilizing this information, what is happening with our climate and the likely future becomes clear. The goal of the presentation is for the audience to be better educated on the fundamental causes of climate change and why solutions are elusive.

Presenter: Jerome Montague, Alaskan Command

Moderator: Nancy Fresco, University of Alaska

Using Novel Autonomous Technology To Study And Monitor The Arctic Environment From Millimeter-Scale

Tikahtnu C

Here we present recent advances in studying and monitoring the Arctic environment using novel and autonomous technology including adaptive sampling using real-time satellite-relayed data. Examples from Arctic fieldwork are presented, including real-time detection and identification of marine mammals using autonomous vehicles and adaptive high-resolution environmental sampling using drifters, radars and towed vehicles.

Presenter: Peter Winsor, University of Alaska Fairbanks

Moderator: Sam Widmer, ConocoPhillips Alaska Inc.

Using A Generic UFP-QAPP At A Large Complex Contaminated Site - The Galena Airport

Tikahtnu D

A panel of regulators, U.S. Air Force managers and consultants will share their experiences applying the "Uniform Federal Policy for Quality Assurance Project Plans" (UFP-QAPP) to a large and complex site at Galena Airport. When EPA and other federal agencies developed guidance and training programs for this new workplan tool, the "Generic QAPP" was seen as a potentially valuable concept. The project team at Galena was one of the first to embrace that concept in Alaska, and the team members learned through trial and error as they developed this complex workplan. Developed for the Air Force in 2010, the Generic QAPP for Galena has had only three major revisions and has been successfully used through four field seasons on 60+ sites or "Areas of Concern." Three prime contractors and numerous subcontractors have used the same workplan, submitting only limited contractor-specific supplements for approval. Field workplan requirements for each area of concern have been reduced to separate "field sampling plans" that become appendices to the Generic QAPP. Risk Assessment workplans are also appendices to the master document. Development of the Generic QAPP has saved time and money at Galena by agreeing up front on typical project objectives and using common workplans and procedures for multiple areas of concern.

Presenters: Fred Vreeman and Dennis Shepard, Alaska Department of Environmental Conservation; Win Westervelt, CH2M HILL; Bruce Henry, Parsons; Brent Jones, Tetra Tech
Moderator: Todd Blessing, Alaska Department of Environmental Conservation

Youth And Adult Environmental Project Showcase (Part 1 of 2)

Tubughnenq 4

This session will highlight the following exemplary youth and adult environmental project partnerships from around the state: The Kaltag Virtual Museum, the Copper River Watershed project, The Innoko River School GLOBE Burn site, and the M.C.D.T website to showcase original songs and teen creative environmental expressions. The session will provide ideas for partners and funding sources, and explore successes, challenges and lessons learned.

Presenters: Deshaun McGinty, Kaltag; Gabrielle Brown, Cordova; McKenzie Sage Haber, Homer
Moderator: Laurel Devaney, US Fish & Wildlife Service

February 3

MONDAY

12:00 PM - 1:45 PM

**NOON KEYNOTE EVENT
Ballroom A&B****Special Guest
Senator Mark Begich,
US Senate**

Senator Mark Begich, serving in his fifth year representing Alaska in the US Senate, will provide welcoming remarks prior to the keynote presentation. Senator Begich serves

on the Veterans Affairs, Homeland Security, and Commerce Committees. He serves as chairman of the Commerce Committee's Subcommittee on Oceans, Atmosphere, Fisheries and Coast Guard and as chairman of the Subcommittee on Emergency Management and Intergovernmental Affairs.

**Chad Pregracke,
Living Lands And Waters**

Chad Pregracke is a modern-day leader and proof that one person can make a difference. What started as one man's crusade to clean up the Mississippi River has evolved into a cultural movement that has resulted in over 7 million pounds of garbage

being cleaned out of America's rivers. The vision and leadership skill that Chad possesses has inspired more than 70,000 people to volunteer their time and resources. This keynote event will provide a journey to discover a world filled with lively characters, colorful places, and gripping adventures as part of Chad's quest to clean America's major rivers. From the darkness of underwater shell diving, to the brightness of a river clean up involving hundreds of volunteers from a local community, Chad's tale embodies the importance of setting lofty goals, staying determined when the going gets tough, and creating a solid team dynamic even in the most difficult of environments. Chad's sincere enthusiasm creates an uplifting wave for audiences of all ages as he relates his personal convictions and struggles regarding cleaning up America's rivers.

2:00 PM - 3:15 PM

**Abiotic, Biotic And Biogeochemical Treatment Of
Chlorinated Organics****K'enakatnu Boardroom**

This presentation will provide a discussion of abiotic, biotic and biochemical processes for treating chlorinated organics in soil and groundwater and will present methods and results of bench and field studies.

Presenter: Daniel Leigh, FMC Corporation

Moderator: Win Westervelt, CH2M HILL

**How Landfill Paperwork Is Useful For More Than
Origami!****Kahtnu 1**

Think paperwork is useless? Especially landfill paperwork? It's not! Monthly Landfill Inspection forms can be used to track problems and repairs at the landfill. Your inspection report lays out at least three ideas to improve your landfill and therefore your community's environment. Come find out what other uses landfill paperwork can have to your community. Who knows - maybe we'll make some origami too?

Presenters: Rebecca Colvin and Kym Bronson, Alaska Department of Environmental Conservation

Moderator: Trisha Bower, Alaska Department of Environmental Conservation

**Learning The Basics And Getting Started: A Session
For New Indian General Assistance Program Staff
(Part 1 of 2)****Tikahtnu C**

Often getting started is the hardest part for new Indian General Assistance Program (IGAP) Staff. This session is designed to "check in" with new IGAP staff on the important requirements, and answer questions. New staff should be prepared to discuss your IGAP projects and participate in an activity during Part 2.

Presenters: JR Herbst, Cathy Villa, Mahri Lowinger, and Tom Fordham, US Environmental Protection Agency

Moderator: Santina Gay, US Environmental Protection Agency

**Living Lands & Waters –Inspiring Others To Take
Action...One Piece Of Garbage At A Time!****Tikahtnu D**

What began 16 years ago with one young man and a big vision to clean the Mississippi River, has grown into the only "industrial strength" river cleanup organization like it in the world. Learn more about Living Lands & Waters--its programs and operations...and successes and failures. Beyond cleanups, Living Lands & Waters has also expanded into planting trees and hosting educational workshops aboard their floating classroom on the barge the crew lives on. Get ideas on how to start your own cleanups, tree planting and educational projects, gain sponsors, and recruit and motivate volunteers...and keep them coming back for more!

Presenter: Tammy Becker, Living Lands & Waters

Moderator: Doug Huntman, Alaska Department of Environmental Conservation

2:00 PM - 3:15 PM cont.

Marine Debris General Topics (Part 1 of 2)**Tubughnenq 3**

This two-part session will have presentations on general topics of marine debris for the state of Alaska. Topics will include local origin of debris, invasive species, statewide prioritization for cleanup and research efforts.

Presenters: Cheri Northern, Anchorage Waterways Council; Margot O'Connell, Sitka Sound Science Center; Jana Stewart, Alaska Department of Environmental Conservation
Moderator: Tom Pogson, Island and Trails Network

Relationship-Scale Conservation**Kahtnu 2**

This presentation explains how to implement conservation at a relationship scale. The objectives are to (1) discuss challenges and threats to conservation at protected areas, (2) outline an approach to address these threats, (3) describe tools to implement relationship-scale conservation, and (4) present an example from rural Alaska to illustrate the innovative approach.

Presenters: Susan Miller, Jimmy Fox, and Jeffrey J. Brooks, US Fish & Wildlife Service; Robert G. Dvorak, Central Michigan University
Moderator: Crystal Leonetti, US Fish & Wildlife Service

The Power Of A Flower: Developing Community Monitoring Programs To Understand Invasive Plant Impacts**Tubughnenq 4**

Alaska has a wealth of berries and they are an important part of the subsistence diet. However, new types of weeds may be luring pollinators like bees away from our berry plants. This session will introduce a community monitoring program you can be part of to learn more about this issue.

Presenter: Katie Villano Spellman, University of Alaska Fairbanks

Moderator: Peter Stortz, UAF Cooperative Extension Service -Retired

Two Climate Change Case Studies: Increased Water Temperature And Impacts To Yellow Cedar Tikahtnu E

In the first case study presented, The Western Alaska Landscape Conservation Cooperative and Alaska Climate Science Center are directing a comprehensive effort to conduct regional freshwater climate change analyses. Partnering with the Alaska Natural Heritage Program, the project team is now consolidating stream and lake temperature monitoring sites into the Alaska Online Aquatic Temperature Site (AKOATS). The second presentation will discuss how much of the research on yellow-cedar decline in Southeast Alaska has focused on how reduced snowpack associated with climate change makes these trees vulnerable to sudden freeze-thaw events. As forest mortality events can have cascading effects on ecosystem function, biological diversity, and other ecosystem services, we study overstory and understory dynamics in forests affected by the decline.

Presenters: Marcus Geist, Alaska Natural Heritage Program; Lauren Oakes, Stanford University
Moderator: Nancy Fresco, University of Alaska

Wood Heat For Rural Alaska Homes: Your Choices Determine Heating Efficiency, Health & Safety Tubughnenq 5

Wood heat provides safe, sustainable heat for many rural homes. The decisions wood burners make preparing wood fuel for burning, purchasing the right stove, proper installation, operation and maintenance of the stove and venting are critical steps. This presentation describes concerns of improper wood heating that lead to air quality, human health and safety issues in many communities. Modern wood heating requires a systems approach to avoid unsafe and costly consequences.

Presenter: Robert Gorman, UAF Cooperative Extension Service
Moderator: Devany Plentovich, Alaska Energy Authority

NOTES:

Activation Methods For Persulfate Used For In-Situ Chemical Oxidation (ISCO)

K'enahtnu Boardroom

This presentation will discuss the main activation methods for properly activating persulfate and achieving success in the field when using persulfate for ISCO. Discussion will include the pros and cons, safety, dosing information, costs and case studies of four main activation methods.

Presenter: Stacey Telesz, FMC Corporation

Moderator: Win Westervelt, CH2M HILL

Clean Energy Policy

Kahtnu 1

Renewable energy and energy efficiency have long been lauded as best steps forward for energy security, economic growth and environmental health, but how do we get there? Chris Rose, executive director of Renewable Energy Alaska Project, has been instrumental in the passage of legislation promoting greater adoption of renewable energy and energy efficiency in Alaska. He will present on next best steps for clean energy policy in Alaska, drawing on examples from around the country and relevant research done here in Alaska.

Presenter: Chris Rose, Renewable Energy Alaska Project

Moderator: Gene Therriault, US Environmental Protection Agency

Going Geospatial: Adventures In Mapping For Community Programs

Tubughnenq 4

Are you looking for a fun and easy way to incorporate the latest technology into your community environmental program? You can use GIS technology to collaborate on maps, display data, and tell your stories with photos and text. An ArcGIS Online for Organizations account can give your group the ability to do all this and more. Not only is this mapping software powerful, it is also engaging, user-friendly and, thanks to a statewide educational license, free to youth organizations.

Presenter: Katie Kennedy, University of Alaska Fairbanks

Moderator: Peter Stortz, UAF Cooperative Extension Service
-Retired

Learning The Basics And Getting Started: A Session For New Indian General Assistance Program Staff (Part 2 of 2)

Tikahtnu C

Often getting started is the hardest part for new Indian General Assistance Program (IGAP) Staff. This session is designed to "check in" with new IGAP staff on the important requirements and to answer questions. New staff should be prepared to discuss your IGAP projects and participate in an activity during Part 2.

Presenters: JR Herbst, Cathy Villa, and Tami Fordham, US Environmental Protection Agency

Moderator: Santina Gay, US Environmental Protection Agency

Marine Debris General Topics (Part 2 of 2)

Tubughnenq 3

This session will have presentations on general topics of marine debris for the state of Alaska. Topics will include local origin of debris, invasive species, statewide prioritization for cleanup and research efforts.

Presenters: Erika Ammann, National Oceanic and Atmospheric Administration; Peter Murphy, National Ocean Service; Ben Pister, National Park Service; Veronica Padula, University of Alaska Anchorage

Moderator: Tim Veenstra, Airborne Technologies

Marine Mammal Consumption In Alaska: Contaminants, Benefits And Risks

Tikahtnu D

Many in Alaska, particularly those living in native communities, consume varying amounts of marine mammals, such as whale, walrus and seal. All marine mammals have a certain body load of various contaminants depending on several parameters that include species, habitat, age, hierarchy in the food chain, etc. Risk management strategies may be warranted to advise the public on safe dietary choices. This session aims to share what we know about levels of contaminants in marine mammals caught in Alaska, to discuss possible sources of these contaminants and how they potentially bioaccumulate and biomagnify in these animals, and to set the stage for developing a framework to estimate the potential risks and benefits associated with harvesting and consuming them.

Presenters: Ali Hamade, Alaska Department of Health and Social Services; Marty Brewer, Alaska Department of Environmental Conservation; Lori Quakenbush, Alaska Department of Fish and Game; Jim Berner, Alaska Native Tribal Health Consortium

Moderator: Barbara Schrader, US Forest Service

Red Devil Mine: A 2014 Action To Prevent Historic Tailings From Migrating To The Kuskokwim River Kahtnu 2

The Bureau of Land Management is planning a 2014 action at the abandoned Red Devil Mine site to prevent tailings with high concentrations of mercury, arsenic and antimony from migrating to the Kuskokwim River. The action will focus on Red Devil Creek and tailings piles near the creek. It's a first step in a larger effort to address environmental risk due to the tailings. The BLM is finalizing an investigation of the mine and is evaluating several alternatives for remediating the site. Presenter: Mike McCrum, US Bureau of Land Management Moderator: Ty Keltner, Alaska Department of Environmental Conservation

Solid Waste Problem Solving From The Ground Up - Panel Discussion Tubughnenq 5

Hear how organizations that tackle solid waste concerns across Alaska and the Lower 48 began and pick their brains on how to develop or enhance your community's solid waste efforts. Presenters: Chad Pregracke, Living Lands & Waters; Stephen Price and John Waterhouse, Yukon River Inter-Tribal Watershed Council; Anahma Shannon, Kawerak Inc. Moderator: Ted Jacobson, US Environmental Protection Agency

NOTES:

February 3

MONDAY

February 4

TUESDAY

8:00 AM - 8:45 AM

MORNING KEYNOTE EVENT
Tikahtnu A&B**Dennis McLerran,**
Administrator, EPA Region 10

A popular and involved participant in the Alaska Forum on the Environment, we are proud to announce that Dennis McLerran will return for our 15th year AFE event! Dennis McLerran was sworn in on Febru-

ary 22, 2010 by President Barack Obama to serve as the Regional Administrator (RA) for Region 10, leading a staff of 650 employees with responsibility for an annual budget of \$500 million. As RA, Dennis oversees the implementation and enforcement of the federal environmental rules and regulations in the states of Washington, Oregon, Idaho and Alaska, including 271 Tribal Governments. Before moving to EPA he served as Executive Director of the Puget Sound Clean Air Agency, a state chartered regional agency that adopts and enforces air quality standards where he led the development of an innovative strategy to reduce emissions at the ports of Seattle, Tacoma and Metro Vancouver.

NOTES:

9:00 AM - 10:15 AM

Assessing Risk Perception And Community
Disaster Resilience
Kahtnu 1

The session consists of two presentations. The first presentation will discuss risk perception as a complex dynamic system and as a means for community-based scenario development as a risk-communication tool for capturing assumptions and emergent attitudes under changing conditions. The risk priorities of various North Slope stakeholders and organizations in charge of local and regional governance provide examples of the approach. The second presentation discusses 1) the major challenges to local communities and governments from extreme weather events, globalization, and liability; 2) how building disaster resilience and adaptive capacity can build stronger, more resilient communities while reducing damage from disasters, and 3) methods for building community disaster resilience.

Presenter: Berill Blair, University of Alaska Fairbanks
Moderator: John Duffy, University of Alaska Fairbanks

Environmental Cleanup Response To The 2013
Galena Flood
Tikahtnu D

An ice jam developed on the Yukon River during spring melting in May 2013, flooding the City of Galena, Alaska. As part of the State of Alaska's response to the Governor's disaster declaration, the Alaska Department of Environmental Conservation's (DEC) Prevention and Emergency Response Program (PERP) was activated to address the hazardous debris and contaminated soil on publicly owned lands. More than 4,100 containers of oil and hazardous substances were removed from the community with DEC oversight. This talk will discuss the scope of the work PERP conducted as well as discuss lessons learned that will be applied to future flooding events. Presenter: Ashley Adamczak, Alaska Department of Environmental Conservation
Moderators: Ty Keltner, Alaska Department of Environmental Conservation

EPA Tribal Coordinators: Regional Roundtable
Indian General Assistance Program Discussion
Tikahtnu C

EPA Tribal Coordinators will meet with Indian General Assistance Program (IGAP) grant recipients in this small group format to discuss important program updates, new requirements; and to engage with IGAP staff on issues important to your environmental program.

Presenters: Tami Fordham, Michelle Davis, Mahri Lowinger, Cathy Villa, JR Herbst, Adrienne Fleek and Sherry Kimmons, US Environmental Protection Agency
Moderator: Santina Gay, US Environmental Protection Agency

9:00 AM - 10:15 AM cont.

High School Science Programs For Rural Students Tubughnenq 4

Learn about some great statewide science programs available to rural high school students. Presentations will include information about: Envirothon, National Ocean Science Bowl and the Marine Science Symposium.

Presenters: Te'Audra Sanders, Palmer Soil and Water Conservation District; Phyllis Shoemaker, University of Alaska Fairbanks; Marilyn Sigman, Alaska Sea Grant

Moderator: Laurel Devaney, US Fish & Wildlife Service

How To Prepare For An Occupation In Sustainable Energy Kahtnu 2

With the state of Alaska's policy to increase energy efficiency by 15% in 2020 and obtain half of its electricity from renewable sources by 2025, sustainable energy education plays an important role in achieving these goals. This panel will discuss the Occupational Endorsement in Sustainable Energy, one of the programs focused on developing the needed workforce. Even though the Occupational Endorsement in Sustainable Energy is currently delivered by several educational entities across the state, there is a lot of potential for expanding and enhancing the program. Panelists will include educators, students, and potential employers. The session will focus on the current status and invite input from session participants for the future development of the program.

Presenters: Mark Masteller, University of Alaska Anchorage; Robin Gilcrist, University of Alaska Southeast; Jessie Huff, Renewable Energy Systems; Michael Golub, University of Alaska Fairbanks

Moderator: Tom Marsik, University of Alaska Fairbanks

Update On The US Environmental Protection Agency's Bristol Bay Assessment Tubughnenq 5

On January 15, 2014 the US Environmental Protection Agency (EPA) released its final Bristol Bay Assessment describing potential impacts to salmon and ecological resources from proposed large-scale copper and gold mining in Bristol Bay, Alaska. The report, titled "An Assessment of Potential Mining Impacts on Salmon Ecosystems of Bristol Bay, Alaska," concludes that large-scale mining poses risks to salmon and the tribal communities that have depended on the for thousands of years. Over three years, EPA compiled the best, most current science on the Bristol Bay watershed to understand how large-scale mining could impact salmon and water in this unique area of unparalleled natural resources. The assessment, developed with tribal and public participation, is a technical resource for governments, tribes and the public. There will be an opportunity to ask questions regarding the Assessment in a facilitated process.

Presenters: Dennis McLerran and Sheila Eckman, US Environmental Protection Agency

Moderators: Doug Mutter, Alaska Forum; Dianne Soderland and Tami Fordham, US Environmental Protection Agency

Invasive Species In Rural Alaska (Part 1 of 2) K'enakatnu Boardroom

Invasive species are a growing threat to subsistence and agricultural resources in Alaska. Recently new discoveries of invasive species and impacts to subsistence and agricultural resources highlight the importance of preventing introduction and widespread establishment of invasive species. Part 1 of this two-part session will focus on impacts of invasive species to subsistence and agricultural resources. Specifically, we will discuss white sweetclover and impacts to berry production, Elodea impacts to a popular Fairbanks grayling fishery, and invasive chokecherry impacts to native trees and shrubs consumed by moose.

Presenters: Katie Villano Spellman, University of Alaska Fairbanks; Gino Graziano and Darcy Etcheverry, UAF Cooperative Extension Service

Moderator: Barbara Schrader, US Forest Service

Statewide Marine Debris Removal Efforts (Part 1 of 2)

Tubughnenq 3

In this two-part session presenters from across the state will report on their local cleanup efforts. Differences and similarities of marine debris cleanups will be examined as well as monitoring and data collection.

Presenters: Dave Gaudett, Alaska Marine Stewardship Foundation; Michael Williams, National Oceanic and Atmospheric Administration; Tazay Jones, National Park Service

Moderator: Peter Murphy, National Ocean Service

What Do Alaskans Need? A Review Of Documents Addressing Research Needs Related To Climate Change

Tikahtnu E

Communities, agencies and other entities have begun to grapple with both the information that they need to adapt to a changing climate and how the processes and practices of science should change to make science more useful. We reviewed and coded sixty-three documents that expressed practical research needs related to climate change in Alaska to document stakeholder-defined research needs, assess whether there are spatial or topic-related gaps in needs assessment, and understand what stakeholders suggest about how science might be more relevant and useful in a changing climate.

Presenter: Corrine Knapp, University of Alaska

Moderator: Nancy Fresco, University of Alaska

February 4

10:30 AM - 11:45 AM

Ecosystem Assessments And Major Policy Failures Kahtnu 1

The session consists of two presentations. The first presentation discusses environmental changes at multiple scales to determine whether the harm to ecosystems can be reduced through modification of human behavior and application of sustainable technologies. As change increases in the Yukon Watershed, both environmental management and healthcare policy should support the enhancement of regional adaptive capacity and resilience. A new integrated framework for environmental security assessment using the Yukon River Watershed in Alaska is presented. The second presentation reviews major policy failures in Alaska including: Kyoto agreement, Convention of Biological Diversity, Endangered Species Act, Intensive Management Law, selected fisheries policies of the Magnusson-Stevens Act, Law of the Sea, as well as education, clean air, mining and water quality policies. The comparison helps understanding of methods for improving Alaska's economic-environmental-sociological system. Presenters: Lawrence Duffy and Faulk Huettmann, University of Alaska Fairbanks

Moderator: John Duffy, University of Alaska Fairbanks

Ensuring Field And Lab Competency Under Indian General Assistance Program Baseline Monitoring Projects

Tikahtnu C

Compliance with the Forum on Environmental Measurement (FEM) Policy for ensuring field and laboratory competency is now required by the Office of Grants and Debarment for EPA-funded agreements expected to exceed a total maximum value of \$200,000 (in federal funding) that will involve the generation or use of environmental data. The FEM Policy went into effect on October 1, 2013 for all qualifying grants from that date forward. This will affect many of our Alaska Indian General Assistance Program grants and tribal baseline monitoring efforts.

Presenter: Gina Grepo-Grove, US Environmental Protection Agency

Moderators: JR Herbst and Mary Goolie, US Environmental Protection Agency

How To Talk To Your Community About Wood Smoke Risks And Mitigation Strategies

Tubughnenq 5

Six panelists will illustrate how wood smoke toxins enter the body, how they affect the body and how to promote wood burning practices that reduce smoke and toxins in wood smoke.

Presenter: Gillian Mittelstaedt, Tribal Healthy Homes Northwest

Moderator: Klaudia Jo Klaudi, Knik Tribe

How Will Climate Change Affect Cultural Resources And Historic Properties?

Tikahtnu E

Learn about potential impacts such as increased erosion and thermokarsting on archaeological sites, weathering of historic roofs, increased rates of deterioration of artifacts and other impacts you may want to consider as you're working on cultural and historic sites throughout the state. National Park Service staff will provide short presentations and then open the session to discussion and Q&A.

Presenters: Dael Davenport, Rachel Mason, and Jeremy Karchut, National Park Service

Moderator: Jean Gamache, National Park Service

Hydraulic Fracturing Basics

Kahtnu 2

ConocoPhillips will discuss the basics of hydraulic fracturing. The presentation will focus on well design, the mechanics of fracturing rock and the basic equipment and fluids involved. The presentation will also cover some of the more common myths related to hydraulic fracturing and will discuss what is fact and what is fiction.

Presenter: Robert Blakney, ConocoPhillips Alaska Inc.

Moderator: Sam Widmer, ConocoPhillips Alaska Inc.

Invasive Species In Rural Alaska (Part 2 of 2)

K'enakatnu Boardroom

Invasive species are increasingly found in rural parts of Alaska where they may impact subsistence and agricultural resources. Invasive species prevention, monitoring and management are becoming a common priority for communities in rural Alaska. This session will cover a general approach to getting started with invasive species management, resources available to new invasive species managers, and stories of rural Alaska efforts. We will finish with a work session where participants will walk away with a plan for action.

Presenters: Gino Graziano, UAF Cooperative Extension Service; Darcy Etcheverry, UAF Cooperative Extension Service; Pat Samson, Kuskokwim River Watershed Council; Genelle Winter, Metlakatla Indian Community; Brian Maupin, Alaska Association of Conservation Districts

Moderator: Barbara Schrader, US Forest Service

Statewide Marine Debris Removal Efforts (Part 2 of 2)

Tubughnenq 3

In this two-part session, presenters from across the state will report on their local cleanup efforts. Differences and similarities of marine debris cleanups will be examined as well as monitoring and data collection.

Presenters: Tom Pogson, Island and Trails Network; Colleen Rankin, Afognak Island; Pamela Lestenkof, Aleut Community of St. Paul

Moderator: Tim Veenstra, Airborne Technologies

TUESDAY

10:30 AM - 11:45 AM cont.

The Pebble Project: Schedule, Social Impacts And Mining Issues**Tikahtnu D**

This session will describe the status of the Pebble Project, and give some information about the potential social impacts for the Bristol Bay Region along with some discussion of mining issues.

Presenter: John Shively, Pebble Partnership

Moderator: Doug Mutter, Alaska Forum

Youth And Adult Environmental Project Showcase (Part 2 of 2)**Tubughnenq 4**

This session will highlight the following exemplary youth and adult environmental project partnerships from around the state: Climate Change Education at Worthington Glacier, the Koyuk Youth Energy Project, the Black River Baseline Data Collection Project, and the Wrangell Boy Scouts Marine and Wilderness Stewardship Project. The session will provide ideas for partners and funding sources, and explore successes, challenges and lessons learned.

Presenters: Allyson Fisher-Salmon, Alisha Horace, Shani Fisher-Salmon, Julia Fisher-Salmon and Brianna Fisher-Salmon, Chalkyitsik; Ashley Hoogendorn, Kenny Lake, and Samantha Ellsworth, Koyuk; Curtis Wimberly, Tymon Teat, Jonah Comstock, and Kellan Eagle, Wrangell

Moderator: Laurel Devaney, US Fish & Wildlife Service

NOTES:

2:00 PM - 3:15 PM

Adapting To Climate Change In The Kuskokwim River Watershed**Tikahtnu E**

Climate change is already having substantial impacts on the Kuskokwim River Watershed, as evidenced by Traditional Ecological Knowledge and monitoring data; climate models indicate that changes will continue to accelerate in the future. The Geos Institute and Kuskokwim River Watershed Council are working together to explore TEK and climate science, and develop adaptation strategies that increase resilience for people and natural systems.

Moderators: Nancy Fresco, University of Alaska; Marni Koopman, Geos Institute

Commercial Building Energy Efficiency As A Catalyst For Sustainability**Kahtnu 1**

Improving the energy efficiency of commercial buildings is a way to fast track greenhouse gas emissions reductions and encourage vibrant, sustainable communities. In this panel experts will discuss energy efficiency potential in the commercial building sector, state programs on the ground currently to help facilitate EE improvements, and a success story of realized savings.

Presenters: Chris Rose, Renewable Energy Alaska Project; Don Bantz, Alaska Pacific University

Moderator: Cady Lister, Alaska Energy Authority

Creating Sustainable Communities**Kahtnu 2**

This session will have 2 presentations: In Presentation 1, Alaska Trails highlights trails successes across Alaska and what these important trails can bring to Alaska's communities, both big and small. Alaska Trails work with partners across the state on a variety of trails is presented as well as a discussion of available resources that communities can tap into for local trail projects. Presentation 2 discusses key elements of nature-based tourism in Southeast Alaska, providing the region's \$250 million in direct revenue and 20% of jobs are discussed. Effects of climate change are assessed from a mixed methods study of how nature-based tourism operators in Juneau, Alaska, perceive and respond to climate change.

Presenters: Kristin Timm, University of Alaska Fairbanks; Steve Cleary, Alaska Trails

Moderator: John Duffy, University of Alaska Fairbanks

February 4

TUESDAY

2:00 PM - 3:15 PM cont.

Erosion Responses And Resources**Tikahtnu D**

Erosion is seen throughout the State of Alaska. This session will feature presenters on potential new erosion responses and a State of Alaska project to assess and provide useful information to affected communities.

Presenter: Ruth A. Carter and Harvey Smith, State of Alaska DOT; Nicole Kinsman, State of Alaska Department of Natural Resources

Moderators: Michelle Davis and JR Herbst, US Environmental Protection Agency

National Park Service In Alaska: What Is It And Why Is Their Work Important To You?**Tubughnenq 5**

The National Park Service manages more than 54 million acres of public lands in Alaska, and as part of that management process, hires more than 500 people for seasonal jobs (many are brought in through the Local Hire authority), creates opportunities for small businesses and oversees subsistence harvest as part of the Federal Subsistence Board process. These are some of the topics that participants can discuss with experts during this session.

Moderators: Jean Gamache and John Quinley, National Park Service

Susitna-Watana Hydro Project: Panel Discussion K'enahtnu Boardroom

The State of Alaska is in the early stages of design and permitting of a large hydro-power project on the Susitna River. The proposed project site is 87 miles upriver from Talkeetna. It includes a 735' high dam, with a 24,000 acre reservoir behind it. This project is intended to meet 50% of Railbelt electrical demand, especially during critical winter months. The panel will be made up of the State's project manager and a variety of other interested stakeholders. The moderator will begin discussion with prepared questions and end with an opportunity for questions from the audience.

Presenter: Wayne Dyok, Alaska Energy Authority

Moderator: Doug Mutter, Alaska Forum

Tribal Water Quality Projects**Tikahtnu C**

This session highlights baseline water quality collection efforts across Alaska and shares valuable information about these projects so that other Tribes looking to develop similar programs can benefit. Key requirements and resources will also be available.

Presenters: Gina Grepo-Grove, US Environmental Protection Agency; Kate Schaberg, Georgetown Tribal Council; Ryan Toohey, Yukon River Inter-Tribal Watershed Association

Moderator: Santina Gay, US Environmental Protection Agency

Tsunami Marine Debris Updates**Tubughnenq 3**

Updates on various Tsunami marine debris efforts across the state.

Presenters: Tom Pogson, Island and Trails Network; Peter Murphy, National Ocean Service; Dave Gaudett, Alaska Marine Stewardship Foundation; Chris Pallister, Gulf of Alaska Keeper; Tim Veenstra, Airborne Technologies

Moderator: Erika Ammann, National Oceanic and Atmospheric Administration

Wildlife Tracking And Trail Cameras!**Tubughnenq 4**

The Alaska Department of Fish and Game now has trail cameras available for loan to educators throughout Alaska. The trail cameras take photos of local wildlife day and night using motion-detection and infra-red technology. Learn how these cameras can be used to spark curiosity and observations about the natural world and to teach youth about local habitats, wildlife and animal adaptations.

Presenters: Elizabeth Manning and Brenda Duty, Alaska Department of Fish and Game

Moderator: Peter Stortz, Alaska UAF Cooperative Extension Service -Retired

NOTES:

3:30 PM - 4:45 PM

Arctic Ecosystem Integrated Survey: A Marine Survey Of The Northern Bering & Chukchi Seas Tubughnenq 3

The Arctic Ecosystem Integrated Survey (EIS) Project is a 2-year comprehensive field study of the water masses, circulation and biological resources of the northeastern Bering Sea and Chukchi Sea marine ecosystems. Our baseline data collection and analysis helps define the regional structure, function and ecology of the plankton, fish and shellfish communities under current climate and habitat conditions. Three scientific cruises and 164 sea days were used to collect data and samples on the oceanography, small plankton, pelagic and demersal fish, and benthic invertebrates. The session will focus on the findings of our efforts.

Presenter: Jared Weems, University of Alaska Fairbanks

Moderator: Sylvia Kreeel, Alaska Department of Natural Resources

Assessing Wetland Functions & Services For National Resource Conservation Service

Kahtnu 1

The Alaska Food Security Act Wetland Analysis (AFWA) was developed for conducting minimal effects determinations and assess wetland functions and services for National Resource Conservation Service (NRCS) programs. AFWA is a simple, efficient process that can be used by NRCS to assess wetlands specifically for NRCS programs in Alaska.

Presenter: Michelle Schuman, US Department of Agriculture

Moderator: Barbara Schrader, US Forest Service

Fukushima Radiation- Putting Things Into Perspective Tikahtnu E

Does the Fukushima Nuclear Power disaster put Alaskans at risk of radiation exposure? Join us for this panel discussion to address what happened at Fukushima, the timing and amounts of radiation released and the risk it poses to Alaska and Alaskans.

Presenters: Clyde Pearce and Ali Hamade, Alaska Department of Health and Social Services; Marty Brewer, Alaska Department of Environmental Conservation

Moderator: David Lockard, Alaska Energy Authority

Essential Ingredients For Obtaining Federal Funding: Indian General Assistance Program K'enakatnu Boardroom

So now you have turned in your EPA Indian General Assistance Program (IGAP) proposal, and will be working with your Project Officer on revisions. What comes next? This session takes a look beyond the traditional Project Officer role and focuses on what the EPA Region 10 Grants Office is looking for in a finished, fundable grant application when they receive it. Presenters will be discussing features of a good final workplan and budget.

Presenters will also offer essential steps to follow to ensure your status stays current in the SAM system. Technical assistance in renewing SAM is available upon request during the session.

Presenters: Aaron Simril, Martha Barber and Gary Bushor, US Environmental Protection Agency

Moderator: Sherry Kimmons, US Environmental Protection Agency

Integrating Traditional Knowledge, Faith And Science For A Thriving Environment And Community Tikahtnu C

A talking circle of six Alaskan leaders will discuss integrating traditional knowledge, faith and science as a way of empowering communities to initiate sustainable actions to ameliorate the impacts of climate change through discourse, dialogue and collaboration.

Presenters: Douglas Causey, University of Alaska Anchorage; Elaine Abraham, Ataur Chowdhury, Curtis Karns, Ilarion Mercurief, Thomas Weise

Moderator: Mary Walker, One People, One Earth

Permitting Alaska's Hard-Rock Mines

Kahtnu 2

Alaska's agencies work together with the federal government to permit Alaska's hard-rock mines. In this session, the permit coordinator will describe the mine permitting process.

The talk will include description of the major permits, the various agency roles in making permitting decisions and a brief synopsis of the National Environmental Policy Act. The presentation will be made by DNR's mining permit coordinator on behalf of Alaska's resource agencies: The Department of Natural Resources, Department of Fish and Game, and Department of Environmental Conservation.

Presenters: Jack DiMarchi, Alaska Department of Natural Resources

Moderator: Bob Loeffler, University of Alaska

SNOWY: A Mixed-Methods Approach To Climate Change On The Lower Yukon River

Tikahtnu D

The SNOWY project uses social and physical sciences to document environmental changes during winter observed by Tribal community members in lower Yukon River communities.

Presenter: Elli Matkin, Yukon River Inter-Tribal Watershed Council

Moderator: Nancy Fresco, University of Alaska

February 4

TUESDAY

3:30 PM - 4:45 PM cont.

Sustainable Living: Rhodiola Rosea Potential For High Latitude Agriculture And Sustainable Firewood Tubughnenq 5

This session has 2 presentations. Presentation 1: Rhodiola rosea is a perennial plant harvested for the medicinal properties in its root. Rhodiola rosea is unique in that it produces adaptogenic compounds called rosavins and is native to high latitudes and does not require or benefit from traditional agricultural inputs such as season extension and fertilization. Currently, most of the world supply of high quality plants comes from wild harvest in Siberia and China. In Alaska, rhodiola production is being explored as a potentially high-profit more environmentally sustainable alternative crop that is ideal for Bush communities. Presentation 2 discusses the topic of forest management for long term sustained yield as rural residents cut and use firewood for home heating. The effects both positive and negative on local forest timber supplies and wildlife habitat enhancement opportunities or habitat degradation from long term harvesting of firewood will also be introduced.

Presenters: Glen Holt and Steve Brown, UAF Cooperative Extension Service; Petra Illig, Alaska Rhodiola Products
Moderator: John Duffy, University of Alaska Fairbanks

Tips For Developing A Successful Community Environmental Program For Teens Tubughnenq 4

Learn about a very successful model developed by the Anchorage Parks Foundation for their environmental programs that target teens. You will learn some valuable tips for engaging families, businesses and community partners and mentoring youth to make a successful environmental project in any size community. In addition, one of the teens who participated in this program will share how the experience affected them.

Presenters: Beth Nordlund, Anchorage Parks Foundation; Gage Raymond, Youth Employment in Parks
Moderator: Peter Stortz, UAF Cooperative Extension Service -Retired

5:00 PM - 7:00 PM

EVENING SOCIAL EVENT – Hosted by the EPA Regional Tribal Operations Committee Tikahtnu A&B

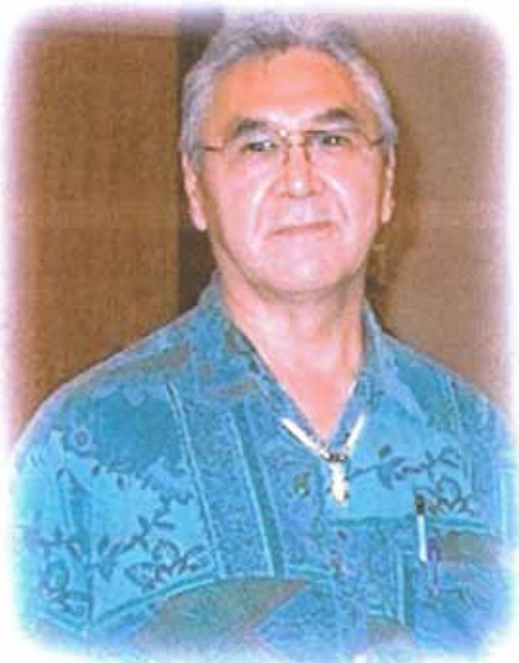
Come and help us honor the Awardees of the 2014 Daniel Ellanek Environmental Excellence Award at the Evening Social Event hosted by the EPA Region 10 Tribal Operations Committee. The evening agenda includes several presentations, light appetizers, and the Alaska Native Heritage Dancers. For more information see the flyer on Page 27 of the program.

NOTES:



**Region 10 RTOC welcomes all AFE
participants to attend an
Evening Social
Tuesday, February 4
5:00PM—6:30PM**

*Recognizing outstanding contributions in support of
enhancement and improvement of environmental protection
in Alaska in memory of Daniel Ellanak,
April 1947—December 2006*



**2014
Daniel Ellanak
Environmental
Excellence
Award**

**Featuring
Dance Performance
from the**

Alaska Native Heritage Dancers

Event Schedule

**5:00 PM Light Refreshment Buffet
5:15 PM RTOC Region 10: Welcome
5:30 PM Brief Address: Special Speaker
5:45 PM 2014 Daniel Ellanak Award Presentation
6:00 PM Alaska Native Heritage Dancers
6:30 PM Event Concludes**

February 5

WEDNESDAY

8:00 AM - 8:45 AM

MORNING KEYNOTE EVENT
Tikahtnu A&B**Dr. Thomas P. Quinn,**
University of Washington

Please join Dr. Thomas Quinn, a professor in the School of Aquatic and Fishery Sciences at the University of Washington, in our morning keynote to learn more of the complex role of Alaska estuaries in the ecology of salmon and trout.

Thomas Quinn's research, and that of his students, has been devoted to the behavior, ecology, evolution and conservation of salmon and trout. He has worked on all the Pacific salmon and trout species in North America, including studies on their different habitats and life history stages. His career has included extensive work on sockeye salmon in western Alaska, as well as many studies in British Columbia and Washington.

NOTES:

9:00 AM - 10:15 AM

A Perspective: The Case For Less Emphasis On
Sub-Slab Data For The Vapor Intrusion Pathway
Kahtnu 1

The use of sub-slab data has become a significant line of evidence when evaluating the vapor intrusion pathway. However, the model of attenuation that we use to apply sub-slab data in decision-making is flawed. An alternate approach relying on an increasing range of tools for evaluating indoor air - the actual point of exposure - will be presented.

Presenter: Ben Martich, Geosyntec Consultants

Moderator: Todd Blessing, Alaska Department of Environmental Conservation

AKMAP Survey Results From Arctic Coastal Plains
Surveys (Wetlands & Lake)**Tubughnenq 3**

The mission of Alaska's Department of Environmental Conservation's Division of Water is to improve and protect the quality of Alaska waters. One way the Division carries out this mission is to monitor and report on water quality. The Alaska Monitoring & Assessment Program (AKMAP) fulfills this responsibility through environmental surveys across the state. This presentation will focus on recent surveys including the 2011 Arctic Coastal Plan Wetlands Survey and 2012 Lakes survey. Future surveys and timelines for existing projects will also be discussed.

Presenter: Terry Lomax, Alaska Department of Environmental Conservation

Moderator: Tim Hoffman, Alaska Department of Environmental Conservation

Emergency Preparedness For Rural Residents And
Communities To Earthquakes, Wildfire & Extreme
Weather**Tubughnenq 4**

This presentation builds on existing information resources from Federal Emergency Management Administration, Alaska Division of Homeland Security & Emergency Preparedness, and Cooperative Extension's Emergency Disaster Network. Preparedness involves planning for known and unknown emergencies, taking action that enhances preparedness and maintaining communication during and after an emergency. Understanding the Incident Command System (ICS) is part for emergency preparedness, just as is personal responsibility and preparedness for emergencies.

Presenters: Robert Gorman, UAF Cooperative Extension Service; Valerie Barber and Linda Tannehil, Professor, UAF Cooperative Extension Service

Moderator: Alison York, University of Alaska Fairbanks

Environmental Restoration Efforts At Federal Sites In Alaska

Tikahtnu C

This session will provide an opportunity for the Air Force, Army, Defense Logistics Agency, Federal Aviation Administration, and National Park Service to present information on their respective cleanup projects in Alaska. The discussion will address progress that has been made in the past year to accomplish remediation goals.

Presenters: Ken Andraschko, US Army Corps of Engineers; Jackie Holzman, Federal Aviation Administration; Charley Peyton, US Air Force; Therese Deardorff, Defense Logistics Agency; Bill Heubner, National Park Service
Moderator: David Bell, US Air Force

Mining In Mongolia: Oyu Tolgoi

Kahtnu 2

A remote, developing location in Mongolia will soon see one of the world's largest, most modern gold and copper mines. It's called Oyu Tolgoi and is being managed by a subsidiary of the worldwide mining company, Rio Tinto. Khulan Bazarvaani, an intern with the UAF Cooperative Extension Service, and others will be presenting information on Mongolia, and on the possible impacts (good and bad) from the mine. Presenters: Khulan Bazarvaani, UAF Cooperative Extension Service; Nomin Batmunkh, University Alaska Anchorage
Moderator: Tami Fordham, US Environmental Protection Agency

Point Thomson Project Update

Tikahtnu D

ExxonMobil continues to develop the Point Thomson Initial Production System Project, which will deliver 10,000 barrels of condensate daily to the Trans-Alaska Pipeline System infrastructure. This is the first phase of a larger field development which ultimately may lead to the production of an estimated 8 trillion cubic feet of natural gas - 25% of the known reserves on the North Slope of Alaska. This summary of recent construction activities touches on the development of the Central Pad which will contain the production processing facilities, in-field gravel roads, service pier and the Point Thomson airstrip. This development will not only provide initial production of the Point Thomson field but will increase our understanding of the resource as a whole and provide other valuable learning as we continue to increase our presence as an operator on the North Slope. Presenter: Christina Nordstrom, ConocoPhillips Alaska Inc.
Moderator: Stacey Aughe, Weston Solutions, Inc.

Roads To Resources And Sustainable Economies In Alaska

K'enakatnu Boardroom

This session consists of 2 presentations. Presentation 1: The history of the roads to resources program with a review of potential benefits current roads to resource projects can have for Alaska and its various regions, local governments, Alaska Native Corporations and individual Alaskans. Highlights of studies showing positive economic effects of connecting a community to the road system will be discussed. The presentation will conclude with a description of projects currently funded by the Legislature and status. Presentation 2: This presentation provides a general overview of the challenges of building roads in non-road areas and explores the potential affect on local communities and sustainability in the shadow of a proposed 220-mile road across the southern edge of the Brooks Range.

Presenters: John Gaedeke, Brooks Range Council; John Moller, Senior Rural Affairs Advisor to Governor Parnell
Moderator: Grace Cochon, US Department of Interior

Shipping Out Hazardous And Potentially Harmful Materials From Rural Alaska – Success Stories

Tubughnenq 5

This presentation provides statewide statistics on materials removed in association with Total Reclaim, summarizes strategies used to accomplish projects, highlights partnerships and communicates ways that communities can strategically plan for next season's projects.

Presenters: Reilly Kosinski, Total Reclaim; Stan Tomasweski, Maniiliq Association; Luke Williams, Chilkoot Indian Association; Peter Gumlickpuk, New Stuyahok; Larry Zirkle, Total Reclaim

Moderator: Daniel Klanott, Chilkat Indian Village

The Role Of Estuaries In Ecosystem Health In Alaska

Tikahtnu E

Across Alaska, the ecological functions of estuaries are poorly studied and the services they provide are misunderstood. This session defines estuaries in an Alaskan context and introduces the important roles that they play to maintain healthy ecosystems as well as keeping substance foods abundant and fisheries profitable.

Presenters: Lawrence Duffy, University of Alaska Fairbanks; Douglas Causey, University of Alaska Anchorage; Barbara Mahoney, National Marine Fisheries Service; Leslie Cornick, Alaska Pacific University

Moderator: Todd Radenbaugh, University of Alaska Fairbanks

February 5

10:30 AM - 11:45 AM

Alaska Wetlands Permitting (404) Program Development - Why, What, When And How Tubughnenq 4

Learn what the State of Alaska is working on with the AS Army Corps of Engineers and the Environmental Protection Agency regarding assuming portions of the Corps 404 wetlands permitting program.

Presenters: Ben White, Alaska Department of Environmental Conservation; Sharon Stambaugh, Alaska Department of Natural Resources

Moderator: Katharine Heumann, Alaska Department of Environmental Conservation

Alaskan Estuaries: What We Know And Need To Know

K'enakatnu Boardroom

Estuary and nearshore zones are some of the most productive ecosystems in the world. These systems are also under increasing threat. Enormous effort is focused on increasing our understanding of the role and importance of estuaries in regions already significantly impaired. However, the vast majority of Alaskan estuaries are neither impacted nor are they the focus of research efforts to fully understand their role and/or importance of these pristine arctic and subarctic systems to our fisheries. This session will broadly focus on some important results from other regions applicable to Alaska, but more importantly draw attention to some recent research and results specific these Alaska systems.

Presenters: Rob Campbell, Prince William Sound Science Center; Vanessa von Biela, US Geological Survey; Tammy Hoem-Neher, National Oceanographic and Atmospheric Administration

Moderator: Doug Limpinsel, National Oceanic and Atmospheric Administration

Amchitka Underground Nuclear Test Site Monitoring

Tikahtnu C

This session will provide final results and lessons learned from field activities performed on Amchitka in 2011 by the US Department of Energy Office of Legacy Management (LM). During the field project, LM inspected 7 sites on Amchitka where petroleum-contaminated materials are encapsulated in engineered disposal cells. Additionally, LM and personnel from the Alaska Department of Environmental Conservation, Aleutian Pribilof Islands Association, US Fish & Wildlife Service and the University of Alaska, Fairbanks conducted biological sampling on Amchitka and Adak Islands and in the marine waters surrounding both islands, to assess food safety and provide baseline activity concentrations that will support quantitative statistical trending analysis with future sampling results. Updates to the Long Term Surveillance Plan and planning for the 2016 monitoring event will also be presented.

Presenters: Paul Darr, S.M. Stoller Corp; Merry Maxwell, US Fish & Wildlife Service; Ken Selby, Aleutian Pribilof Islands Association

Moderator: Mark Kautsky, US Department of Energy

Climate Adaptation Strategies: An Intergenerational Effort To Combine Indigenous Knowledge & Science

Tikahtnu E

Communities need varying levels of guidance, resources and tools to address climate change impacts to their most important resources. This session brings together local community representatives with experts who create and distribute tools and other resources that can help communities increase their resilience in the face of climate change. While we will talk about Alaska, the data presented will be based on a study conducted in Canada.

Presenter: Shannon Donovan, University of Alaska Anchorage

Moderator: Nancy Fresco, University of Alaska

Experimental Use Of Tundra Sod For Rehabilitation At The Point Thomson Project

Tikahtnu D

In the summer of 2013, experimental uses of tundra sod were undertaken at several locations at ExxonMobil's Point Thomson Project. Freshly harvested sod from the mine site was used at the Alaska State C-1 Pad to create a vegetated buffer for Stream 24A and sod was placed on a side slope at the Project airstrip. Some sod was also stored for overwintering in preparation for use next summer. This presentation will highlight the initial results of this work, the challenges that were encountered in the field along with the creative solutions that were devised to overcome them, and the methods that were used to minimize manual handling.

Presenters: Julie McKim and Steve Calder, ExxonMobil Development Company

Moderator: Maggie Valentine-Graham, Weston Solutions, Inc.

Fail To Plan – Plan To Fail: Seasonal Planning For Rural Alaska Landfills

Tubughnenq 5

Don't get washed away by storms, or get soggy with spring run-off. Get your "ducks in a row" by attending this presentation on planning how to prepare your landfill for the harsh Alaskan conditions.

Presenters: Ted Jacobson, US Environmental Protection Agency; Doug Huntman, Alaska Department of Environmental Conservation

Moderator: Rebecca Colvin, Alaska Department of Environmental Conservation

WEDNESDAY

Kodiak's Renewable Energy Revelation Kahtnu 1

Over the past five years, Kodiak Electric Association, Inc. (KEA) overhauled its electric grid infrastructure with the construction of a nine megawatt wind farm and installation of an additional 11 megawatts of hydropower generating capacity, which are both integrated together with a three megawatt battery energy storage system. The culmination of these three major projects allow KEA to budget for 99% of all energy sales in 2014 to be powered with renewably-generated energy. Diesel fuel no longer serves as a primary energy source for the community! Join this session to learn how KEA accomplished their renewable energy vision, and hear examples of how the community benefits from these new energy solutions.

Presenter: Jennifer Richcreek, Kodiak Electric Association, Inc.
Moderator: Doug Mutter, Alaska Forum

Reciprocating Internal Combustion Engines, Boilers And Incinerators

Tubughnenq 3

Reciprocating Internal Combustion Engines (RICE), Boilers and Incinerators - These all have new requirements and compliance dates very soon or recently past, and there are many sources in Alaska that are subject to these changes.

Presenter: Heather Valdez, US Environmental Protection Agency

Moderator: John Pavitt, US Environmental Protection Agency

Regulating Coal Mines

Kahtnu 2

Coal mines have a specific set of federal requirements that are administered by the State of Alaska, Department of Natural Resources (DNR). The DNR administers the federal program, and evaluates coal mine applications, and inspects and enforces the regulations. This session will describe the system for coal mine regulation and enforcement.

Presenter: Cindi Godsey, US Environmental Protection Agency

Moderator: Russ Kirkham, Alaska Department of Natural Resources

Beyond Indian General Assistance Program: Moving From Capacity Building To Implementation

Tikahtnu C

Designed to inform the next phase of tribal environmental program development, the Beyond GAP project will incorporate tribal voices in a visioning process to move from capacity building to implementation. This presentation will provide a brief overview of the history and design of the project and then create a forum for participants to share their own perspectives on the challenges and opportunities they are currently facing in their communities with regards to environmental program implementation.

Presenters: August Cabrera and Fran Wilshusen, Northwest Indian Fisheries Commission

Moderators: Michelle Davis and Santina Gay, US Environmental Protection Agency

Building Environmental Occupation Endorsements For A Rural Workforce

K'enakatnu Boardroom

A discussion on the resources necessary to make a successful Occupation Endorsements that will help to train a rural environmental workforce. Two Rural Environmental Technician Occupation Endorsements that are proposed include Solid Waste Management and Surface Water Quality. Participants are asked to share experiences from successful programs as well as tools and resources that help programs create leadership experiences for students.

Presenters: Dan Bogan, University Alaska Anchorage; Sue Flensburg, Bristol Bay Native Association; Lynn Zender, Zender Environmental

Moderator: Todd Radenbaugh, University of Alaska Fairbanks

Climate Change Adaptation: Linking Alaskan Communities With Resources To Help Meet Challenges

Tikahtnu E

Alaskan communities need varying levels of guidance, resources and tools to address climate change impacts to their most important resources. This session brings together local community representatives with experts who create and distribute tools and other resources that can help communities increase their resilience in the face of climate change.

Presenters: Michael Brubaker, Alaska Native Tribal Health Consortium; Raymond Paddock III, Central Council of the Tlingit and Haida Indian Tribes; Stephen Gray, Alaska Climate Science Center; Terry Johnson, University of Alaska Fairbanks - Seagrant

Moderator: Tonya Graham, Geos Institute

DEC Water Quality Standards Triennial Review

Tubughnenq 4

This presentation will provide information on the role of the Triennial Review and relationship to water quality standards, proposed areas of research and how the public can be involved in the process.

Presenter: Brock Tabor, Alaska Department of Environmental Conservation

Moderator: Tim Hoffman, Alaska Department of Environmental Conservation

February 5

WEDNESDAY

2:00 PM - 3:15 PM cont.

Film Festival**Tikahtnu D**

2:00pm Perspectives on Marine Debris
Resurrection Bay Conservation Alliance

2:15pm Making a T-Shirt

2:45pm Pot Fisheries

2:50 pm Road to Revitalization: Brownfield Challenges in
Rural Alaska

Moderator: Doug Huntman, Alaska Department of Environ-
mental Conservation

Hands On Solid Waste Presentation**Tubughnenq 5**

This presentation is a hands on demonstration of rural landfill practices and techniques. This session will include multiple audience-participation demonstrations related to rural landfill management. The topics addressed will include: Com-paction: Does frequency and quantity matter? Leachate: What is it? What does it look like? What can I do about it? Landfill Signs: Why are they important? What should they say? Sepa-ration: Can I burn this? What are my options? and More! Come have some fun and bring your solid waste questions!!

Presenters: Kym Bronson, Sandi Woods, and Trisha Bower,
Alaska Department of Environmental Conservation

Moderators: Rebecca Colvin, Alaska Department of Environ-
mental Conservation

**How To Use Department Of Environmental
Conservation Data For Environmental Mapping****Kahtnu 1**

The Alaska Department of Environmental Conservation (DEC) has a growing collection of environmental data that can be accessed on the Internet using geographic information system (GIS) maps and other services. The first part of this presentation will focus on how to use existing Internet maps to view DEC environmental data such as contaminated sites, impaired waters, marine debris, solid waste sites, seafood processing facilities, drinking water protection areas, coastal photography and much more. The second part of this presentation will focus on how the public can use DEC data to create their own maps with any of a large variety of mapping tools for research, environmental assessment, outreach, education and other applications.

Presenter: Cliff Jones, Alaska Department of Environmental
Conservation

Moderator: Ty Keltner, Alaska Department of Environmental
Conservation

**Tribal Consultation - Agency Consultation Processes
And Projects****Kahtnu 2**

A panel of federal agency representatives provide short brief-ings on their Tribal consultation process and the points where project Consultation occurs. Agency representatives will provide general information on anticipated Tribal consultation opportunities that may occur in the coming year.

Presenters: Cathy Villa and JR Herbst, US Environmental
Protection Agency; Sudie Hargis, US Coast Guard; Crystal
Leonetti, US Fish & Wildlife Service; Jean Gamache, National
Park Service; Elizabeth Cook, US Army; Givey Kochanowski,
US Department of Energy; Tom Wolforth, US Army National
Guard

Moderator: Doug Mutter, Alaska Forum

**Unmanned Aircraft Systems In Alaska And The Arctic
Tubughnenq 3**

Interest in unmanned aircraft systems (UAS) is growing with applications moving from the military into law enforcement and now commercial mapping. Alaska has been a leader in UAS research with a variety of platforms and sensors conducted by the University of Alaska Fairbanks. This presentation explains the proliferation of UAS technology and how to select the appropriate platform and sensor for applications such as moni-toring wildfires, counting marine mammals, and monitoring critical infrastructure such as pipelines for oil spills.

Presenters: Keith Cunningham, University of Alaska Fairbanks;
Marty Rogers, AK Center for Unmanned Aircraft Systems
Integration

Moderator: Win Westervelt, CH2M HILL

3:30 PM - 4:45 PM

**Alaska Water Quality Standards Antidegradation
Policy Implementation Update****Kahtnu 1**

The Alaska Department of Environmental Conservation (DEC) is developing final antidegradation implementation methods to help implement its existing antidegradation policy. "Antidegra-dation" is a process for determining whether and to what extent high water quality can be lowered. DEC convened a workgroup in early 2012 to provide input on various core elements of antidegradation. The workgroup recommendations have been provided to DEC. This session is part of DEC's additional outreach to describe antidegradation, the workgroup recommendations and to seek additional input before drafting regulations and the formal public notice process for the regulations.

Presenter: Earl Crapps, Alaska Department of Environmental
Conservation

Moderator: Ty Keltner, Alaska Department of Environmental
Conservation

3:30 PM - 4:45 PM cont.

Fieldscope Database For Social Networking, Community Research & Environmental Data Mapping Tubughnenq 4

The Fieldscope database was co-developed by the Yukon River Inter-Tribal Watershed Council and National Geographic to assist Alaska Native communities along the Yukon River with community-based research and monitoring of water quality, permafrost and Indigenous Knowledge issues. This tool is now available to other indigenous groups in Alaska. The presentation will discuss how to access and use Fieldscope to store and visualize your community-generated data.

Presenter: Maggie Massey, Yukon River Inter-Tribal Watershed Council

Moderator: Win Westervelt, CH2M HILL

Film Festival

Tikahtnu D

3:30pm New Explorers – Six short films made by students

3:50 pm Waterways: Language, Culture, and the Environment in Alaska's Upper Tanana

4:15 pm Entanglement of Stellar Sea Lions in Marine Debris: Identifying Causes and Finding Solutions

4:30 Sitka Gateway to the Tongass and other short films

Moderator: JR Herbst, US Environmental Protection Agency

Indian General Assistance Program (GAP)

Roundtable--Mongolia To Alaska: A Young Woman's Journey

Tikahtnu C

A GAP Roundtable highlighting a current international partnership project. Presenters will provide an introduction to indigenous environmental issues in Mongolia, outline internship partners and ongoing projects being developed this year. There will be ample time for open sharing with GAP Environmental Directors and staff on your ideas, opportunities for collaboration and solutions for dealing with similar environmental issues.

Presenters: Khulan Bazarvaani and Meg Burgett, UAF Cooperative Extension Service

Moderator: Santana Gay, US Environmental Protection Agency

How Shaktoolik Plans To Survive Flooding And Erosion In The Face Of A Changing Climate

K'enakatnu Boardroom

The Shaktoolik Planning Committee, with assistance of University of Alaska Sea Grant and Glenn Gray, have conducted a nearly two-year process of considering all options for protecting the village's people and structures from the growing threat of erosion, and of inundation during extreme storm events. In this presentation participants will describe the considerations, the process of arriving at decisions, and which options they have selected.

Presenter: Terry Johnson, University of Alaska Fairbanks - Seagrant

Moderator: Nancy Fresco, University of Alaska

Our Work, Our Life: Fisheries, Seafood And Maritime Careers In Alaska

Tubughnenq 3

This session will consider all of the people and all of the diverse jobs in our state that work on, near, or with the oceans, estuaries and rivers of our state. What are these jobs, what skills and knowledge do they use and how can we make sure that more Alaskans understand these opportunities? How can our young people find their way to these careers? Educators, employers and Alaskans come together to consider the thousands of workers in our state who depend on our waters.

Presenter: Todd Radenbaugh, University of Alaska Fairbanks

Moderator: Paula Cullenberg, University of Alaska Fairbanks

Purchasing Heavy Equipment - Things To Look Out For When Selecting

Tubughnenq 5

Learn valuable information on what to look for when purchasing heavy equipment for rural landfills. Join in on a discussion of the cost difference between new and used equipment, what size equipment is appropriate for remote landfills and basic maintenance tips you need to know. Tier 4 engines and compatibility with rural fuel supplies will be presented as well as "what you need to know when buying a garbage baler for managing rural solid waste".

Presenter: Richard "Doc" Kimball, Yukon Equipment Inc.

Moderator: Ted Jacobson, US Environmental Protection Agency

Region 10 US Environmental Protection Agency's Adaptation Planning

Tikahtnu E

Representatives of the US Environmental Protection Agency will discuss the National and Regional Climate Change Adaptation planning work and the opportunities for tribal coordination and public participation.

Presenter: Mike Cox, US Environmental Protection Agency

Moderator: Michelle Davis, US Environmental Protection Agency

Tribal Consultation - How Tribal Governments Can Make Consultation More Effective

Kahtnu 2

This session will provides guidance to Tribes on how they can provide input during consultation and other regulatory processes to have the most effective impact on agency decisions.

Presenter: Bob Loeffler, University of Alaska

Moderator: Tom Wolforth, US Army National Guard

February 6

THURSDAY

8:00 AM - 11:45 AM

**Statement Of Cooperation - Executive Steering Committee Meeting
K'enakatnu Boardroom**

By invitation only. This session is a closed session of the steering committee.

8:00 AM - 8:45 AM

MORNING KEYNOTE EVENT

Tikahtnu A&B



Craig Welch, Environmental Reporter For The Seattle Times

Craig Welch, Environmental Reporter for The Seattle Times, spent most of 2013 traveling around the Pacific Ocean – from Papua New Guinea to Dutch Harbor, and from rural Indonesia to Hawaii – to write

and produce a groundbreaking multimedia series on ocean acidification called "Sea Change: The Pacific's Perilous Turn." For 14 years Welch has written about hitching helicopter rides with scientists in the melting Arctic, prowling the Oregon woods for endangered owls, tracking the development of Wyoming's oil fields and combing remote islands off the Washington coast for invasive rabbits. Welch has been the recipient of numerous local, regional and national awards. The National Society of Environmental Journalists twice named him Outstanding Beat Reporter of the Year. He spent the 2007 academic year at Harvard University as a fellow with the Nieman Foundation for Journalism. His work has appeared in Smithsonian magazine, Newsweek, and he wrote and co-produced a segment on ocean acidification for The News Hour on PBS. His first book, *Shell Games*, a nonfiction detective story about the hunt for wildlife smugglers, won the national Rachel Carson Environment Book Award in 2011. Craig Welch lives in Washington State with his family and gets outside as often as he can.

9:00 AM - 10:15 AM

**Basic Emergency Management Principles
Kahtnu 1**

Basic principles of emergency management with a special emphasis on considerations for urban and rural settings in Alaska. Presenters: Jeff Ennenga and George Coyle, Alaska Division of Homeland Security and Emergency Management
Moderator: Kim Weibl, Alaska Division of Homeland Security and Emergency Management

**Bedbugs In Alaska
Kahtnu 2**

Bedbug infestation has become an increasingly common occurrence in Alaska. Controlling bedbugs can be a challenge, especially in our diverse state. Often a 'one-size-fits-all' approach to bedbug control does not work for some individuals or communities, especially in rural or remote locations. In this presentation we will be looking at bedbug biology as well as suggesting some tools for control strategies based on available resources in different parts of the state.

Presenters: Leif Albertson, UAF Cooperative Extension Service; Katie Lynn Burbage, Tanana Chiefs Council
Moderator: Meg Burgett, UAF Cooperative Extension Service

**Dispersant Use Policy In Alaska
Tubughnenq 5**

The Alaska Regional Response Team, an interagency government spill response group, has drafted a new proposed policy for the use of oil dispersants in Alaska to ensure a better regulated capability and preauthorization in higher risk maritime transit zones. This policy is out for public comment until February 14, 2014. Dispersant use is a complex, often controversial issue. Panelists will provide perspectives on the proposed policy based on their experiences and equities. Presenters: Mark Everett, US Coast Guard; Mark Swanson, Prince William Sound Regional Citizens' Advisory Council; Doug Helton, US National Oceanic and Atmospheric Administration; John French, Pegasus Environmental Solutions – Alaska; Rick Bernhardt, Alaska Department of Environmental Conservation; Chris Field, US Environmental Protection Agency

Moderator: Doug Mutter, Alaska Forum

**Film Festival
Tikahtnu D**

9:00am The Story of Bottled Water – Annie Leonard

9:15am The Story of Electronics – Annie Leonard

9:30am The Story of Solutions – Annie Leonard

9:45am Gwich'in Women Speak – The Sacred Place Where Life Begins

Moderator: Santina Gay, US Environmental Protection Agency

9:00 AM - 10:15 AM cont.

Documenting Subsistence Uses And Resources Tubughnenq 3

This session focuses on two subsistence-related projects funded through the Coastal Impact Assistance Program. The first project will improve understanding of fish and wildlife resources that are potentially impacted by resource development activities in the Chukchi Sea and Bering Sea. This project systematically documents coastal community environmental information to enumerate fish and wildlife harvests, documents local observations of changes in the environment, and maps community subsistence resource and land-use patterns. The goals of the second project is to describe the fish and aquatic resources of the Chipp, Ikpiukuk, Topagoruk, Meade, and Inaru river systems using both qualitative and quantitative metrics such that a baseline condition can be established. Once the baseline is established resource managers are better able to protect those species upon which subsistence users rely. Presenters: Nicole Braem and Bradley Parker, Alaska Department of Fish and Game

Moderator: Sylvia Kreel, Alaska Department of Natural Resources

Out-Of-State And Natural Contributions To Baseline Atmospheric Mercury Deposition In Alaska Tubughnenq 4

Baseline mercury levels in Alaska are affected by non-Alaskan sources because mercury undergoes long-range transport, in particular, inter-continental transport from East Asia and Europe to North America. There are also natural sources of mercury such as volcanoes, oceans and mercury-enriched soil that contribute to Alaska mercury deposition (the transfer of mercury to the ground during precipitating or dry time periods). This presentation provides the results of a computer modeling study that simulates the global cycle of atmospheric mercury to estimate the contributions of global man-made and natural mercury sources to mercury deposition in Alaska.

Presenter: Krish Vijayaraghavan, Environ International Corporation

Moderator: Kate McLaughlin, Alaska Forum

Problems And Solutions For Dust On Village Roads Tikahtnu C

Panelists from: Polar Supply, Department of Transportation, Alaska Native Tribal Health Consortium and Midwest Industrial Supplies will discuss problems in the villages from road dust and solutions to reduce the dust.

Presenter: Steve Hickman, Polar Supply Company; Bobbi Ann Barnowski, Native Village of Old Harbor

Moderator: Richard Porter, Knik Tribe

Traditional Observations Of Climate Change Tikahtnu E

"Our Voices, Sharing Our Ways Forward." During this session, there will be an opportunity for Tribal members from all over Alaska to share their observations on the impacts of a changing climate and its impact on a traditional way of life.

Presenter: Victoria Hykes Steere, Alaska Pacific University

Moderator: Michelle Davis, US Environmental Protection Agency

10:30 AM - 11:45 AM

AK Regional Response Team: Alaska Unified Plan Updates And Tribal Government Interaction Guidelines

Tubughnenq 5

Co-Chairs of the Alaska Regional Response Team will provide a status update on changes to the Alaska Unified Plan and share information on the Tribal Government Interaction Guidelines.

Presenters: Chris Field, US Environmental Protection Agency; Mark Everett, US Coast Guard

Moderators: Nick Knowles and Tami Fordham, US Environmental Protection Agency

Creating Safe And Healthy Tribal Homes

Tikahtnu C

Panelists from Alaska Healthy Homes Workgroup will describe the "Air Matters" program and the 12 tools used to empower residents to safeguard their home from airborne and toxic pollutants.

Presenter: Gillian Mittelstaedt, Tribal Healthy Homes Northwest

Moderator: Richard Porter, Knik Tribe

Film Festival

Tikahtnu D

10:30am North to Alaska, Invasive Species

11:00am Sustainable Northern Shelter – Atmautluak

11:20am Second Order Science, film on global climate change

Moderator: Karen Kroon, AK Forum

Fish In Alaska: How Environmental Contaminants Impact Them & How Their Health Impacts Our Health

Tikahtnu E

Some environmental contaminants can be found naturally in the ecosystem while others are generated by various industries. These chemicals can be deposited locally or transported long distances. They can accumulate in the ecosystem and food chain then finally concentrate in fish. Fish are a critical component of the diet of many in Alaska. Fish harvesting and consumption have numerous benefits that are not only nutritional, but cultural and physical as well. But just how much fish can you safely consume, and how is that number generated? This session will focus on 1) The impact of environmental contaminants on fish and how the Alaska Department of Environmental Conservation monitors those impacts; 2) Fish consumption recommendations; and 3) Water quality criteria for State freshwater and marine waters. How does the state derive human health criteria? What are the potential opportunities and challenges?

Presenters: Robert Gerlach and Brock Tabor, Alaska Department of Environmental Conservation; Ali Hamade, Alaska Department of Health and Social Services

Moderator: Sylvia Kreel, Alaska Department of Natural Resources

February 6

THURSDAY

10:30 AM - 11:45 AM cont.

How Are Your Berries?**Kahtnu 1**

We will review the results of a statewide survey that asked rural Alaskans to identify which species of berries were important as subsistence food, and to describe any changes they had seen in the local abundance and quality of berries. The audience will be invited to share observations about recent berry harvests in their regions. The goal of this workshop is to build a framework for understanding how climate change may affect wild berries. Presenters: Jerry Hupp, US Geological Survey; Michael Brubaker, Alaska Native Tribal Health Consortium
Moderator: Theo Garcia, Knik Tribe

Managing Household Hazardous Waste & RCRA Regulations As They Pertain To Universal Waste & Used Oil**Kahtnu 2**

Emerald Alaska and Total Reclaim present an educational session that focuses on management of household hazardous waste and Resource Conservation and Recovery Act (RCRA) regulations as they pertain to universal waste and used oil. The presentation will highlight EPA educational materials concerning RCRA regulations. The presenters from Total Reclaim and Emerald Alaska will share their combine wealth of knowledge about household hazardous waste and non-hazardous waste removal and transportation. Presenter: Reilly Kosinski, Total Reclaim
Moderator: Larry Zirkle, Total Reclaim

Renewable Energy Projects In Alaska**Tubughnenq 3**

Since the Alaska Legislature passed landmark legislation in 2008 to launch the Renewable Energy Fund, the Alaska Energy Authority, with legislative approval, has given over 250 grants and \$227million for projects around the state. Join this panel of experts representing wind, hydroelectric, biomass, geothermal, solar and heat recovery to hear how renewable energy contributes to community and environmental well-being. Panelists will also discuss the potential of various renewable energy technologies around Alaska, and explain how communities can tap into available financial resources for developing renewable energy projects. Presenters: Rich Stromberg, Alaska Energy Authority; George Hornberger, Iliamna-Newhalen-Nondalton Electric Cooperative
Moderator: Sean Skaling, Alaska Energy Authority

Small Community Emergency Response Plan (SCERP) Tubughnenq 4

Successful management of a disaster begins at the local level. When a community is prepared to deal with a disaster the impact can be minimized and lives may be saved. One key to community preparedness is a community emergency plan that defines how the community will manage disasters. The plan should include local, regional, and state resources that support local response. The Small Community Emergency Response Plan is a new, exciting approach to emergency management for small communities. Presenters: Julie Harvey and Mariel Fonteyn, Alaska Division of Homeland Security and Emergency Management
Moderator: Kim Weibl, Alaska Division of Homeland Security and Emergency Management

12:00 PM - 1:45 PM

NOON KEYNOTE EVENT**Tikahtnu A&B****John Huston, Explorer**

Leadership Lessons from the North Pole: Optimism, Teamwork, Perseverance

Skiing unsupported to the North Pole has been called the "toughest trek on the planet." John Huston and his expedition partner are the

first and only Americans to have accomplished this feat. This multimedia presentation will use John's journey to the North Pole as a vehicle to discuss taking on challenges in your professional and personal endeavors. Themes include leadership, teamwork, perseverance, optimism, and planning. The narrative is about John's journey to the North Pole, but the message is about you and how you can reach your goals. John's award winning book, *Forward*, will be available at the event. Takeaway points covered in the presentation: Setting and achieving goals, embracing challenge, working in a team, optimism, the power of mentor-ship, and working with change.

2:00 PM - 3:15 PM

Alaska Science Catalog & The Southeast Alaska GIS Library: Working To Meet Your Geospatial Needs!

Kahtnu 1

Got a science data question? Just ask Alaska Science Catalog (ASC)!- a one-stop public portal for the discovery, distribution and visualization of scientific and geospatial information for Alaska. Find out how the catalog can be used to promote stewardship and use of scientific and geospatial data that is required to answer research and management questions. The range of human activities and wildlife habitat occurring at the interface between terrestrial and marine zones in Southeast Alaska makes the coastal zone both complex and difficult to manage. The SE Alaska GIS Library and its partners identified access to a broad range of coastal geospatial data as a starting point for resource managers to navigate this complexity. Through partner support, the Coastal Resource Management Module is a family of services hosted by the SE Alaska GIS Library that facilitates access and visualization to a broad range of users.

Presenters: Kacy Kreiger, University of Alaska Anchorage; Kim Homan, University of Alaska Southeast

Moderator: Sarai Timothy, University of Alaska Southeast

Arctic Air Quality Workshop

Kahtnu 2

This session will provide an update on the status of a study being conducted for effects of oil and gas exploration, development, and production on the Arctic Outer Continental Shelf.

Presenter: Virginia Raps, Bureau of Ocean Energy Management

Moderator: Mary Anne Porter, US Environmental Protection Agency

Beginning A Conversation About Climate Change: A Report Out on Community Outreach

Tikahtnu E

Tribal Presenters will discuss how they are doing educational outreach to their communities on climate change in order to begin planning their responses to the new problems it creates.

Presenters: Nick Carter, Mayor, Native Village of Eek; Ben Balivet and Sophie Chaliak, AVCP; Brenda Louise, Petersburg Indian Association

Moderator: Susan Rose Wotkins, Northern Arizona University

Disposal Options For Construction And Demolition Waste In Rural Alaska

Tubughnenq 5

This presentation will discuss the available disposal options for construction and demolition (C&D) waste generated by projects in rural Alaska. The presentation will be directed towards both contractors and rural community members. Contractors and consultants doing work in rural Alaska need to plan ahead to ensure the legal disposal of C&D debris. This presentation will inform both contractors and community members of the available options for disposal and emphasize the importance of early planning and communication. The different options for C&D waste disposal and the application process for each option will be discussed including: disposal in a permitted community landfill, a one-time disposal authorization, and an inert waste monofill permit.

Presenters: Rebecca Colvin and Neil Lehner, Alaska Department of Environmental Conservation

Moderator: Trisha Bower, Alaska Department of Environmental Conservation

Hazard Mitigation And Rural Community Resilience

Tubughnenq 3

A focus on preparation before disaster events occur in rural communities and on the ability of a community to utilize available resources to respond to, withstand and recover from adverse situations.

Presenter: Ann Gravier, Alaska Division of Homeland Security and Emergency Management

Moderator: Kim Weibl, Alaska Division of Homeland Security and Emergency Management

NOTES:

February 6

THURSDAY

2:00 PM - 3:15 PM cont.

Methyl Mercury In Subsistence Pike And Burbot In Western Alaska**Tubughnenq 4**

Methyl mercury measured in pike and burbot (lusc) from traditional and well-used subsistence fishing sites in the lower Yukon and lower and middle Kuskokwim Rivers is high enough to be a public health concern. The most recent data are shared as they apply to human toxicology and the protection of the most sensitive members of our population: "women who are or can become pregnant, nursing mothers, and children 12 years and under." This session will also discuss the development of fish consumption guidelines.

Presenters: Ali Hamade and Joe Sarcone, Alaska Department of Health and Social Services

Moderator: Michael Kinser

Successful Tribal Environmental Demonstration Projects Under The Indian General Assistance Program**Tikahtnu D**

This session will showcase tribal environmental demonstration projects under GAP and Alaska Tribal Multi-media successful projects that Tribes are undertaking.

Presenters: Desirae Roehl, ANTHC; Yvonne Baker, Yakutat Tlingit Tribe

Moderators: Santina Gay and JR Herbst, US Environmental Protection Agency

2:00 PM - 4:45 PM

Statement Of Cooperation - Executives & Elders Talking Circle**Tikahtnu C**

By invitation only. This is a closed session of the steering committee.

NOTES:

3:30 PM - 4:45 PM

A Meaningful Role? Understanding A Key Phrase In The National Interest Lands Conservation Act Kahtnu 1

The purpose of this presentation is to describe key features of "A meaningful role in the management of fish and wildlife" as stated in the Alaska National Interest Lands Conservation Act (ANILCA), for rural subsistence groups in Western Alaska.

Presenters: Kevin A. Bartley, University of Alaska Anchorage; Jeffrey J. Brooks, US Fish & Wildlife Service

Moderator: Theo Garcia, Knik Tribe

Bringing Science Home To Your Community**Kahtnu 2**

Solving environmental problems in Alaskan communities usually requires sound scientific information which may be difficult to find or which may not exist for your area. This workshop will provide environmental specialists, educators and community members with tips about how to communicate and work with scientists to collect, receive and understand the scientific information you need.

Presenters: Laurie Morrow, Alaska SeaLife Center; Marilyn Sigman, Alaska Sea Grant

Moderator: Robin Dublin, Alaska Center for Ocean Science Education Excellence

Internet-Connected Sensors And Thermal Infrared Technology For Environmental Data Collection**Tubughnenq 3**

This session has two presentations. The first presentation discusses three case studies of improving groundwater management by using low-cost internet-connected sensors and actuators coupled with a cloud-based data management and control platform. Remote data collection can include a wide variety of data related to climate, energy and habitat change. The second presentation discusses thermal infrared (TIR) remote sensing technology for mapping surface temperature patterns in rivers and streams. This technology has been applied to small coastal streams in Alaska to provide baseline data for Pacific Salmon habitat. The presentation will discuss the accuracy and uncertainty of TIR remote sensing and how these data provide insight on climate changes of thermal fish habitat in coastal streams.

Presenters: Sean Ragain, Geosyntec Consultants; Russell Faux, Quantum Spatial

Moderator: Win Westervelt, CH2M HILL

Overview Of The Northwest Arctic Borough Subsistence Mapping Project Tubughnenq 4

A description of the Northwest Arctic Borough Subsistence Mapping Project goals, objectives, methods, accomplishments and applications will be provided. The people of the Northwest Alaska harvest fish, game and plants to feed their families while natural resources provide jobs. Changes in climate, increased marine shipping and proposed development are expected in the near future. Responding to these changes, the project will produce an updated atlas of maps combining local traditional knowledge and formal science showing where people look for food by season in 7 coastal Arctic communities including Noatak, Kivalina, Deering, Buckland, Selawik, Noorvik, and Kotzebue. Additionally maps will be made documenting important ecological areas and potential resource development areas surrounding these communities. The maps will be used as baseline information supporting both food security and development during Borough land use planning, zoning and permitting.

Presenters: Zach Stevenson and Lance Kramer, Northwest Arctic Borough

Moderator: Sylvia Kreel, Alaska Department of Natural Resources

Stump The Chumps Tubughnenq 5

The presentation will be an "open for questions" forum. Audience members can ask the "CHUMPS" questions pertaining to problems with managing the Waste Stream in their communities. The "Chumps" will try to answer all the questions and those they can't answer will be researched and an answer provided at a later date.

Presenters: Ted Jacobson, US Environmental Protection Agency; Doug Huntman, Alaska Department of Environmental Conservation

Moderator: Rebecca Colvin, Alaska Department of Environmental Conservation

The Science, Culture And Policy Of Tribal Environmental Contaminant Exposure And Health K'enakatnu Boardroom

Presenters will summarize the latest research in tribal toxicology projects. The first presenter from Agency for Toxic Substances and Disease Registry (ATSDR) will focus on the adverse effect of a chemical on a human being or human toxicology is compared and contrasted with the adverse effect of a chemical on a way of being in an indigenous population or cultural toxicology. The discussion centers on environmental contaminant exposure in Alaska Native people and the related concerns for cancer. Additionally, the presenters from the National Tribal Toxics Council (NTTC) will provide an overview of the Council and current projects that the members are working on, such as PCBs and flame retardants; and are looking for input on tribal representative requests for local education and outreach materials.

Presenters: Joe Sarcone, US Department of Health and Human Services; Gary Hay, Copper River Native Association; Lance Whitwell, Native Village of Venetie Tribal Government

Moderator: Santana Gay, US Environmental Protection Agency

Tsunami Awareness Tikahtnu D

This is an basic awareness-level course that provides a basic understanding of tsunamis, hazard assessment, warning and dissemination and community response strategies to effectively reduce tsunami risk. The goal of this course is to enhance the participants' abilities to support their organizational preparedness and response efforts.

Presenter: Erv Petty, Alaska Division of Homeland Security and Emergency Management

Moderator: Kim Weibl, Alaska Division of Homeland Security and Emergency Management

Valuing Ecosystem Services In The Mat-Su Borough Tikahtnu E

This session has 2 presentations. Presentation 1: Open space provides ecosystem services to communities such as clean water for drinking, local food production, flood control and tourism and recreation opportunities. Neglecting to conserve open space and the services it provides can be a costly oversight in the long-term. This presentation discusses results from a project to value these ecosystem services and how this information can be used for the long-term benefit of Mat-Su communities. Presentation 2: This project estimates local Mat-Su residents' preferences and values related to five environmental attributes based upon five focus groups held in 2012. The study measures residents' willingness to pay for farm land conservation, salmon recovery and access to recreation, as well as measures people's preferences towards continued population growth and a variety of job sectors. Presenters: Kim Sollien, Great Land Trust; Toby Schwoerer, University of Alaska Anchorage

Moderator: Grace Cochon, US Department of Interior

February 7

FRIDAY

8:00 AM - 4:45 PM

8-Hour Rural Alaska Landfill Administrator (RALA) Training For Village Administrators Tubughnenq 3

The Rural Alaskan Landfill Administrator (RALA) training is a full day (eight hour) class that focuses on duties required of rural village administrators and Indian General Assistance Program coordinators. This training is divided into ten sections and will explore the basics of operating a landfill, required administrative paperwork, permits, selecting an operator and collection program. The presentation and general discussion will cover solid waste topics in an effort to ensure success at a rural site.

Presenters: Ted Jacobson, US Environmental Protection Agency; Doug Huntman, Alaska Department of Environmental Conservation

Healthy Home Activities Across Alaska: Local Perspectives On What Works Tubughnenq 5

For participants interested in learning and sharing information about "Healthy Homes," this workshop may be of interest to you. Presenters will share "healthy home" programs at the community level focusing on: • Learn how tribes have used different types of tools (surveys, checklists, instruments) to gather information about health and safety hazards in their communities • Talk with agencies and organizations that provide funding for healthy home activities, learning about the type of funds they offer, when to apply and what a competitive grant looks like (e.g., HUD, EPA, BIA, DOE, and ANTHC) • Hear about effective methods for educating and empowering residents – your partner in creating safe and healthy homes. Presenters: Aileen Gagney and Gillian Mittelstaedt, Tribal Healthy Homes Northwest; Mahri Lowinger, US Environmental Protection Agency; Leif Albertson, UAF Cooperative Extension Service; Brian Hirsch, US Department of Energy; AJ Salkoski, Alaska Native Tribal Health Consortium; Carma Reed, US Housing and Urban Development

8:00 AM - 5:00 PM

HAZWOPER Tikahtnu E

You must be registered under the weekly rate or the day rate for Friday to attend this event. If you are registering guests who are attending the full day Friday HAZWOPER session, please enter the total number participating including yourself and your guests. All HAZWOPER participants will be charged a \$25 fee for course materials.

8:00 AM - 11:45 AM

Why Geotourism? Tubughnenq 4

This workshop will demonstrate how Geotourism can help Alaska's rural communities in their sustainability efforts. The goal is to help preserve, protect and educate in ways that support the natural and cultural distinctiveness of places and the well-being of the people who live there. By featuring the destination as a whole, a Geotourism strategy can strengthen the case for responsible, beneficial tourism by embracing all tourism assets uniquely distinctive to the locale. Advocates for those assets can form a constituency of stewardship that have enough political and economic clout to challenge local threats to the place's natural and cultural resources while building a unique marketing case for their destination. Presenter: Anthony Nakazawa, UAF Cooperative Extension Service
Moderator: Meg Burgett, UAF Cooperative Extension Service

8:30 AM - 12:30PM

Oil Spill Recovery Institute Advisory Board Annual Meeting K'enakatnu Boardroom

This is a semi-annual meeting of the Prince William Sound Oil Spill Recovery Institute Advisory Board. The Oil Spill Recovery Institute was established by the Oil Pollution Act of 1990 to fund and carry out research and development and education on Arctic and sub-Arctic oil spills; spill response technologies; and the assessment of impacts to the environment, economy and lifestyles of Alaskans. Presenter: W. Scott Pegau, Oil Spill Recovery Institute

9:00 AM - 11:00 AM

Community Based Monitoring: Furthering The Discussion On Best Practices For Alaska Kahtnu 1

Alaskans understand the dynamic nature of our coasts and river watersheds and depend on the long-term health of these resources for food, recreation and economic value. With climate change hitting Alaska hard, an accelerated pace of change has heightened interest in local observations as a way to monitor, understand and adapt to change. Community Based Monitoring (CBM) programs are being initiated by a number of tribal, nonprofit and government entities in communities across Alaska. Join the Alaska Ocean Observing System (AOOS) and Alaska Sea Grant as they launch a project to identify and document best practices for new and ongoing CBM programs that will help ensure they are high quality, culturally appropriate, meet local needs, are designed to actually collect data of value and eventually return data to those collecting it. This workshop will feature presentations by several current Alaska CBM programs and provide participants the opportunity to provide input into the discussion of best practices. The session is a prelude to a larger workshop hosted by AOOS and Alaska Sea Grant on April 1-2 in Anchorage. For more information on that workshop, go to <http://seagrant.uaf.edu/conferences/2014/community-based-monitoring/index.php>

Presenters: Ellen Tyler and Molly McCammon, Alaska Ocean Observing System/Sea Grant

Moderator: Paul Gill, US Coast Guard

9:00 AM - 11:45 AM

Film Festival Tikahtnu D

9:00am Sitka: Gateway to the Tongass Short Films

9:20am Sustainable Northern Shelter – Atmautluak

9:40am Gwich'in Women Speak – The Sacred Place Where Life Begins

10:00am Waterways: Language, Culture, and the Environment in Alaska's Upper Tanana

10:30am Big Bear Country

11:00am Entanglement of Stellar Sea Lions in Marine Debris: Identifying Causes and Finding Solutions

11:15am Perspectives on Marine Debris

Resurrection Bay Conservation Alliance

11:30am New Explorers

Moderators: JR Herbst and Santina Gay, US Environmental Protection Agency

9:00 AM - 4:30 PM

Overview Of The Mining Industry: Property Rights, Environment, Economics And Issues Kahtnu 2

This 1-day course provides an overview of the mining industry, especially as it exists in Alaska. It will provide participants with an understanding of the exploration and development process, environmental issues, industry economics, the permitting/regulatory process and public issues. The course is designed for those who may one day work in the industry, those who are affected by it, and those who are interested in the issues of the day that one hears about almost daily on TV or in the press. The course is taught by a UAA Visiting Professor. It is an abridged version of a short-course taught at UAA last year. Participants will receive a certificate of completion at the end of the course.

Presenter: Bob Loeffler, University of Alaska

Moderator: Toby Schwoerer, University of Alaska Anchorage

1:00 PM - 2:30 PM

Indian General Assistance Program Closing Session Tikahtnu C

All GAP representatives travelling under the grant are strongly encouraged to attend this wrap up session, where we will recap the week's events, share observations and make announcements for upcoming training opportunities.

Presenters: Santina Gay and Tami Fordham, US Environmental Protection Agency

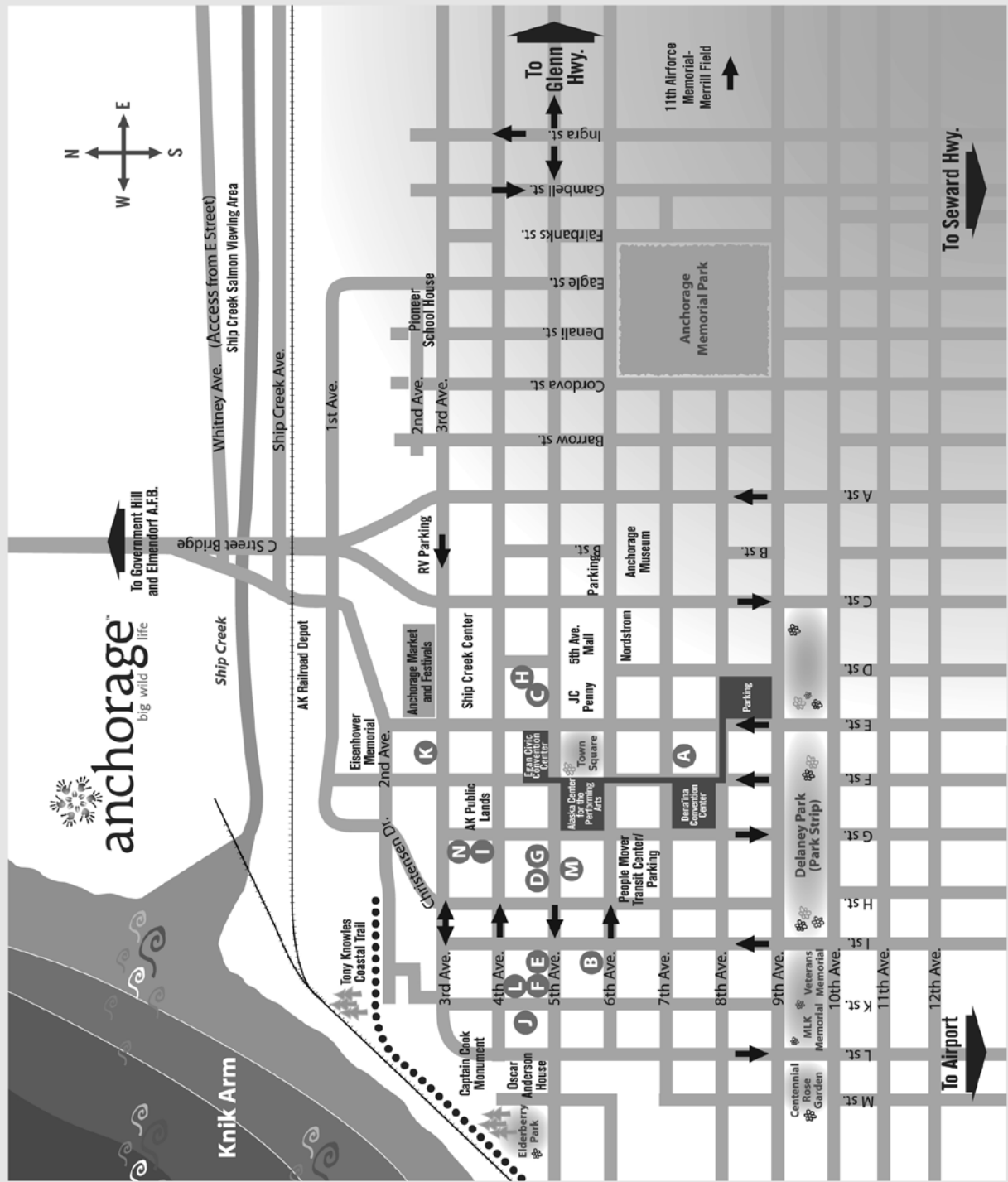
Moderators: Cathy Villa and JR Herbst, US Environmental Protection Agency

NOTES:

NOTES:

Welcome to the Alaska Forum on the Environment

Downtown Anchorage Restaurant Map



- A** Dianne's Restaurant
907.279.7243 / 550 W 7th Ave
Homemade soups, breads and desserts
- B** Geno and Sal's Famous
New York Grill at Platinum Jaxx
907.344.5900 / 901 W 6th Ave
Informal lunch & dinner
- C** Ginger
907.929.3680 / 425 W 5th Ave
Asian fusion/Pacific Rim
- D** Glacier Brewhouse
907.274.2739 / 737 W 5th Ave
Brewpub lunch & dinner
- E** Fletcher's / Hotel Captain Cook
907.343.2218 / 939 W 5th Ave
Classic pub fare
- F** Whale's Tail / Hotel Captain Cook
907.343.2220 / 939 W 5th Ave
Lunch, dinner and small plates
- G** ORSO
907.222.3232 / 737 W 5th Ave
Italian lunch & dinner
- H** Phyllis' Seafood Café and Salmon Bake
907.274.6576 / 436 D St
Alaskan seafood; lunch, dinner
- I** Sacks Café and Restaurant
907.276.3546 / 328 G St
Creative lunch & dinner
- J** Simon and Seafort's Saloon and Grill
907.274.3502 / 420 L St
Creative Alaskan cuisine
- K** Sizzlin' Café
907.929.5400 / 523 W 3rd Ave
Homestyle lunch
- L** Snow City Café
907.272.2489 / 1034 W 4th Ave
Gourmet breakfast & lunch
- M** Solstice Bar and Grill
907.276.7676 / 720 W 5th Ave
Global taste with local flair
- N** Urban Greens
907.276.0333 / 304 G St
Subs & salads with ethnic flair

Agenda By Subject

CLIMATE CHANGE

MONDAY, 10:30 AM - 11:45 AM

- ☐ Science Of Climate Change: Why We Are Seeing What We Are Seeing
Tikahtnu E

MONDAY, 2:00 PM - 3:15 PM

- ☐ Two Climate Change Case Studies: Increased Water Temperature And Impacts To Yellow Cedar
Tikahtnu E

TUESDAY, 9:00 AM - 10:15 AM

- ☐ What Do Alaskans Need? A Review Of Documents Addressing Research Needs Related To Climate Change
Tikahtnu E

TUESDAY, 10:30 AM - 11:45 AM

- ☐ How Will Climate Change Affect Cultural Resources And Historic Properties?
Tikahtnu E

TUESDAY, 2:00 PM - 3:15 PM

- ☐ Adapting To Climate Change In The Kuskokwim River Watershed
Tikahtnu E

TUESDAY, 3:30 PM - 4:45 PM

- ☐ SNOWY: A Mixed-Methods Approach To Climate Change On The Lower Yukon River
Tikahtnu D

WEDNESDAY, 10:30 AM - 11:45 AM

- ☐ Climate Adaptation Strategies: An Intergenerational Effort To Combine Indigenous Knowledge & Science
Tikahtnu E

WEDNESDAY, 2:00 PM - 3:15 PM

- ☐ Climate Change Adaptation: Linking Alaskan Communities With Resources To Help Meet Challenges
Tikahtnu E

WEDNESDAY, 3:30 PM - 4:45 PM

- ☐ How Shaktoolik Plans To Survive Flooding And Erosion In The Face Of A Changing Climate
K'enahtnu Boardroom
- ☐ Region 10 US Environmental Protection Agency's Adaptation Planning
Tikahtnu E

THURSDAY, 9:00 AM - 10:15 AM

- ☐ Traditional Observations Of Climate Change
Tikahtnu E

THURSDAY, 2:00 PM - 3:15 PM

- ☐ Beginning A Conversation About Climate Change: A Report Out On Community Outreach
Tikahtnu E

COASTAL

TUESDAY, 3:30 PM - 4:45 PM

- ☐ Arctic Ecosystem Integrated Survey: A Marine Survey Of The Northern Bering & Chukchi Seas
Tubughnenq 3

THURSDAY, 9:00 AM - 10:15 AM

- ☐ Documenting Subsistence Uses And Resources
Tubughnenq 3

THURSDAY, 10:30 AM - 11:45 AM

- ☐ Fish In Alaska: How Environmental Contaminants Impact Them & How Their Health Impacts Our Health
Tikahtnu E

THURSDAY, 3:30 PM - 4:45 PM

- ☐ Overview Of The Northwest Arctic Borough Subsistence Mapping Project
Tubughnenq 4

CONTAMINATED SITES

MONDAY, 10:30 AM - 11:45 AM

- ☐ Using A Generic UFP-QAPP At A Large Complex Contaminated Site - The Galena Airport
Tikahtnu D

MONDAY, 2:00 PM - 3:15 PM

- ☐ Abiotic, Biotic And Biogeochemical Treatment Of Chlorinated Organics
K'enahtnu Boardroom

MONDAY, 3:30 PM - 4:45 PM

- ☐ Activation Methods for Persulfate Used For In-Situ Chemical Oxidation (ISCO)
K'enahtnu Boardroom
- ☐ Red Devil Mine: A 2014 Action To Prevent Historic Tailings From Migrating To The Kuskokwim River
Kahtnu 2

TUESDAY, 9:00 AM - 10:15 AM

- ☐ Environmental Cleanup Response To The 2013 Galena Flood
Tikahtnu D

WEDNESDAY, 9:00 AM - 10:15 AM

- ☐ A Perspective: The Case For Less Emphasis On Sub-Slab Data For The Vapor Intrusion Pathway
Kahtnu 1
- ☐ Environmental Restoration Efforts At Federal Sites In Alaska
Tikahtnu C

WEDNESDAY, 10:30 AM - 11:45 AM

- ☐ Amchitka Underground Nuclear Test Site Monitoring
Tikahtnu C

THURSDAY, 9:00 AM - 10:15 AM

- ☐ Dispersant Use Policy In Alaska
Tubughnenq 5

FRIDAY, 8:00 AM - 5:00 PM

- ☐ HAZWOPER
Tikahtnu E

EMERGENCY RESPONSE

TUESDAY, 9:00 AM - 10:15 AM

- ☐ Assessing Risk Perception And Community Disaster Resilience
Kahtnu 1
- ☐ Environmental Cleanup Response To The 2013 Galena Flood
Tikahtnu D

WEDNESDAY, 9:00 AM - 10:15 AM

- ☐ Emergency Preparedness For Rural Residents And Communities To Earthquakes, Wildfire & Extreme Weather
Tubughnenq 4

WEDNESDAY, 3:30 PM - 4:45 PM

- ☐ How Shaktoolik Plans To Survive Flooding And Erosion In The Face Of A Changing Climate
K'enahtnu Boardroom

THURSDAY, 9:00 AM - 10:15 AM

- ☐ Basic Emergency Management Principles
Kahtnu 1

THURSDAY, 10:30 AM - 11:45 AM

- ☐ AK Regional Response Team: Alaska Unified Plan Updates And Tribal Government Interaction Guidelines
Tubughnenq 5
- ☐ Small Community Emergency Response Plan (SCERP)
Tubughnenq 4

Agenda By Subject

THURSDAY, 2:00 PM - 3:15 PM

- ☐ Hazard Mitigation And Rural Community Resilience
Tubughnenq 3

THURSDAY, 3:30 PM - 4:45 PM

- ☐ Tsunami Awareness
Tikahtnu D

ENERGY

MONDAY, 10:30 AM - 11:45 AM

- ☐ Using Novel Autonomous Technology To Study And Monitor The Arctic Environment From Millimeter-Scale
Tikahtnu C

MONDAY, 2:00 PM - 3:15 PM

- ☐ Wood Heat For Rural Alaska Homes: Your Choices Determine Heating Efficiency, Health & Safety
Tubughnenq 5

MONDAY, 3:30 PM - 4:45 PM

- ☐ Clean Energy Policy
Kahtnu 1

TUESDAY, 9:00 AM - 10:15 AM

- ☐ How To Prepare For An Occupation In Sustainable Energy
Kahtnu 2

TUESDAY, 10:30 AM - 11:45 AM

- ☐ How To Talk To Your Community About Wood Smoke Risks And Mitigation Strategies
Tubughnenq 5
- ☐ Hydraulic Fracturing Basics
Kahtnu 2

TUESDAY, 2:00 PM - 3:15 PM

- ☐ Commercial Building Energy Efficiency As A Catalyst For Sustainability
Kahtnu 1
- ☐ Susitna-Watana Hydro Project: Panel Discussion
K'Enakatnu Boardroom

TUESDAY, 3:30 PM - 4:45 PM

- ☐ Fukushima Radiation- Putting Things Into Perspective
Tikahtnu E

WEDNESDAY, 9:00 AM - 10:15 AM

- ☐ Point Thomson Project Update
Tikahtnu D

WEDNESDAY, 10:30 AM - 11:45 AM

- ☐ Kodiak's Renewable Energy Revelation
Kahtnu 1
- ☐ Amchitka Underground Nuclear Test Site Monitoring
Tikahtnu C
- ☐ Experimental Use Of Tundra Sod For Rehabilitation At The Point Thomson Project
Tikahtnu D

THURSDAY, 10:30 AM - 11:45 AM

- ☐ Renewable Energy Projects In Alaska
Tubughnenq 3

THURSDAY, 2:00 PM - 3:15 PM

- ☐ Arctic Air Quality Workshop
Kahtnu 2

ENVIRONMENTAL EDUCATION

MONDAY, 10:30 AM - 11:45 AM

- ☐ Ocean Science On The Outer Continental Shelf
K'Enakatnu Boardroom
- ☐ Youth And Adult Environmental Project Showcase (Part 1 of 2)
Tubughnenq 4

MONDAY, 2:00 PM - 3:15 PM

- ☐ The Power Of A Flower: Developing Community Monitoring Programs To Understand Invasive Plant Impacts
Tubughnenq 4

TUESDAY, 9:00 AM - 10:15 AM

- ☐ High School Science Programs For Rural Students
Tubughnenq 4
- ☐ How To Prepare For An Occupation In Sustainable Energy
Kahtnu 2

TUESDAY, 10:30 AM - 11:45 AM

- ☐ Youth And Adult Environmental Project Showcase (Part 2 of 2)
Tubughnenq 4

TUESDAY, 2:00 PM - 3:15 PM

- ☐ Wildlife Tracking And Trail Cameras!
Tubughnenq 4

TUESDAY, 3:30 PM - 4:45 PM

- ☐ Tips For Developing A Successful Community Environmental Program For Teens
Tubughnenq 4

WEDNESDAY, 9:00 AM - 10:15 AM

- ☐ The Role Of Estuaries In Ecosystem Health In Alaska
Tikahtnu E

WEDNESDAY, 10:30 AM - 11:45 AM

- ☐ Alaskan Estuaries: What We Know And Need To Know
K'Enakatnu Boardroom

WEDNESDAY, 2:00 PM - 3:15 PM

- ☐ Building Environmental Occupation Endorsements For A Rural Workforce
K'Enakatnu Boardroom

WEDNESDAY, 3:30 PM - 4:45 PM

- ☐ Our Work, Our Life: Fisheries, Seafood And Maritime Careers In Alaska
Tubughnenq 3

THURSDAY, 2:00 PM - 3:15 PM

- ☐ Alaska Science Catalog & The Southeast Alaska GIS Library: Working To Meet Your Geospatial Needs!
Kahtnu 1

ENVIRONMENTAL REGULATION

MONDAY, 10:30 AM - 11:45 AM

- ☐ Communicating Effectively: Oil And A Changing Arctic
Kahtnu 1

TUESDAY, 10:30 AM - 11:45 AM

- ☐ Ecosystem Assessments And Major Policy Failures
Kahtnu 1

WEDNESDAY, 9:00 AM - 10:15 AM

- ☐ AKMAP Survey Results From Arctic Coastal Plains Surveys (Wetlands & Lake)
Tubughnenq 3

WEDNESDAY, 10:30 AM - 11:45 AM

- ☐ Reciprocating Internal Combustion Engines, Boilers and Incinerators
Tubughnenq 3
- ☐ Alaska Wetlands Permitting (404) Program Development - Why, What, When And How
Tubughnenq 4

Agenda By Subject

WEDNESDAY, 2:00 PM - 3:15 PM

- ☐ DEC Water Quality Standards Triennial Review
Tubughnenq 4
- ☐ How to Use Department Of Environmental
Conservation Data for Environmental Mapping
Kahtnu 1

WEDNESDAY, 3:30 PM - 4:45 PM

- ☐ Alaska Water Quality Standards Antidegradation
Policy Implementation Update
Kahtnu 1

THURSDAY, 9:00 AM - 10:15 AM

- ☐ Dispersant Use Policy In Alaska
Tubughnenq 5

THURSDAY, 2:00 PM - 3:15 PM

- ☐ Arctic Air Quality Workshop
Kahtnu 2

FRIDAY, 8:00 AM - 5:00 PM

- ☐ HAZWOPER
Tikahtnu E

FEDERAL FACILITIES

MONDAY, 10:30 AM - 11:45 AM

- ☐ Using A Generic UFP-QAPP At A Large Complex
Contaminated Site - The Galena Airport
Tikahtnu D

MONDAY, 3:30 PM - 4:45 PM

- ☐ Red Devil Mine: A 2014 Action To Prevent
Historic Tailings From Migrating To The
Kuskokwim River
Kahtnu 2

TUESDAY, 2:00 PM - 3:15 PM

- ☐ National Park Service In Alaska: What Is It And
Why Is Their Work Important To You?
Tubughnenq 5

WEDNESDAY, 9:00 AM - 10:15 AM

- ☐ Environmental Restoration Efforts At Federal
Sites In Alaska
Tikahtnu C

WEDNESDAY, 10:30 AM - 11:45 AM

- ☐ Alaskan Estuaries: What We Know And Need
To Know
K'enahtnu Boardroom

FILM FESTIVAL

WEDNESDAY, 2:00 PM-3:15 PM

- ☐ Tikahtnu D

WEDNESDAY, 3:30 PM-4:45 PM

- ☐ Tikahtnu D

THURSDAY, 9:00 AM-10:15AM

- ☐ Tikahtnu D

THURSDAY, 10:30 AM-11:45AM

- ☐ Tikahtnu D

FRIDAY, 9:00 AM-10:15 AM

- ☐ Tikahtnu D

FRIDAY, 10:30 AM-11:45 AM

- ☐ Tikahtnu D

FISH, WILDLIFE, HABITAT & FORESTS

MONDAY, 10:30 AM - 11:45 AM

- ☐ Using Novel Autonomous Technology To Study
And Monitor The Arctic Environment From
Millimeter-Scale
Tikahtnu C

MONDAY, 2:00 PM - 3:15 PM

- ☐ Relationship-Scale Conservation
Kahtnu 2
- ☐ The Power Of A Flower: Developing Community
Monitoring Programs To Understand Invasive
Plant Impacts
Tubughnenq 4

MONDAY, 3:30 PM - 4:45 PM

- ☐ Marine Mammal Consumption In Alaska:
Contaminants, Benefits And Risks
Tikahtnu D

TUESDAY, 9:00 AM - 10:15 AM

- ☐ Invasive Species In Rural Alaska (Part 1 of 2)
K'enahtnu Boardroom

TUESDAY, 10:30 AM - 11:45 AM

- ☐ Invasive Species In Rural Alaska (Part 2 of 2)
K'enahtnu Boardroom

TUESDAY, 2:00 PM - 3:15 PM

- ☐ Wildlife Tracking And Trail Cameras!
Tubughnenq 4

TUESDAY, 3:30 PM - 4:45 PM

- ☐ Assessing Wetland Functions & Services For
National Resource Conservation Service
Kahtnu 1

WEDNESDAY, 9:00 AM - 10:15 AM

- ☐ AKMAP Survey Results From Arctic Coastal
Plains Surveys (Wetlands & Lake)
Tubughnenq 3
- ☐ The Role Of Estuaries In Ecosystem Health In
Alaska
Tikahtnu E

THURSDAY, 10:30 AM - 11:45 AM

- ☐ Fish In Alaska: How Environmental
Contaminants Impact Them & How Their Health
Impacts Our Health
Tikahtnu E

THURSDAY, 2:00 PM - 3:15 PM

- ☐ Methyl Mercury In Subsistence Pike And Burbot
In Western Alaska
Tubughnenq 4

THURSDAY, 3:30 PM - 4:45 PM

- ☐ A Meaningful Role? Understanding A Key Phrase
In The National Interest Lands Conservation Act
Kahtnu 1

INDIAN GENERAL ASSISTANCE PROG (IGAP)

MONDAY, 2:00 PM - 3:15 PM

- ☐ Learning The Basics And Getting Started:
A Session For New IGAP Staff (Part 1 of 2)
Tikahtnu C

MONDAY, 3:30 PM - 4:45 PM

- ☐ Learning The Basics And Getting Started:
A Session For New IGAP Staff (Part 2 of 2)

TUESDAY, 9:00 AM - 10:15 AM

- ☐ EPA Tribal Coordinators: Regional Roundtable
Discussion
Tikahtnu C
- ☐ Indian General Assistance Program Working
Session
Tubughnenq 5

TUESDAY, 10:30 AM - 11:45 AM

- ☐ Ensuring Field And Lab Competency Under IGAP
Baseline Monitoring Projects
Tikahtnu C

Agenda By Subject

TUESDAY, 2:00 PM - 3:15 PM

- ☐ Erosion Responses And Resources
Tikahtnu D
- ☐ Tribal Water Quality Projects
Tikahtnu C

TUESDAY, 3:30 PM - 4:45 PM

- ☐ Essential Ingredients For Obtaining Federal Funding: Indian General Assistance Program
K'enakatnu Boardroom

WEDNESDAY, 2:00 PM - 3:15 PM

- ☐ Beyond Indian General Assistance Program: Moving From Capacity Building To Implementation
Tikahtnu C
- ☐ Tribal Consultation - Agency Consultation Processes And Projects
Kahtnu 2

WEDNESDAY, 3:30 PM - 4:45 PM

- ☐ Indian General Assistance Program (GAP) Roundtable-- Mongolia To Alaska: A Young Woman's Journey
Tikahtnu C
- ☐ Region 10 US Environmental Protection Agency's Adaptation Planning
Tikahtnu E
- ☐ Tribal Consultation - How Tribal Governments Can Make Consultation More Effective
Kahtnu 2

THURSDAY, 10:30 AM - 11:45 AM

- ☐ AK Regional Response Team: Alaska Unified Plan Updates And Tribal Government Interaction Guidelines
Tubughnenq 5
- ☐ Creating Safe And Healthy Tribal Homes
Tikahtnu C

THURSDAY, 2:00 PM - 3:15 PM

- ☐ Successful Tribal Environmental Demonstration Projects Under The Indian General Assistance Program
Tikahtnu D

THURSDAY, 3:30 PM - 4:45 PM

- ☐ The Science, Culture And Policy Of Tribal Environmental Contaminant Exposure And Health
K'enakatnu Boardroom

MARINE DEBRIS

MONDAY, 10:30 AM - 11:45 AM

- ☐ Marine Debris Outreach
Tubughnenq 3

MONDAY, 2:00 PM - 3:15 PM

- ☐ Marine Debris General Topics (Part 1 of 2)
Tubughnenq 3

MONDAY, 3:30 PM - 4:45 PM

- ☐ Marine Debris General Topics (Part 2 of 2)
Tubughnenq 3

TUESDAY, 9:00 AM - 10:15 AM

- ☐ Statewide Marine Debris Removal Efforts (Part 1 of 2)
Tubughnenq 3

TUESDAY, 10:30 AM - 11:45 AM

- ☐ Statewide Marine Debris Removal Efforts (Part 2 of 2)
Tubughnenq 3

TUESDAY, 2:00 PM - 3:15 PM

- ☐ Tsunami Marine Debris Updates
Tubughnenq 3

MINING

MONDAY, 10:30 AM - 11:45 AM

- ☐ Elements Of A Modern Hard-Rock Mine
Kahtnu 2

MONDAY, 3:30 PM - 4:45 PM

- ☐ Red Devil Mine: A 2014 Action To Prevent Historic Tailings From Migrating To The Kuskokwim River
Kahtnu 2

TUESDAY, 10:30 AM - 11:45 AM

- ☐ The Pebble Project: Schedule, Social Impacts And Mining Issues
Tikahtnu D

TUESDAY, 3:30 PM - 4:45 PM

- ☐ Permitting Alaska's Hard-Rock Mines
Kahtnu 2

WEDNESDAY, 9:00 AM - 10:15 AM

- ☐ Mining In Mongolia: Oyu Tolgoi
Kahtnu 2

WEDNESDAY, 10:30 AM - 11:45 AM

- ☐ Regulating Coal Mines
Kahtnu 2

FRIDAY, 9:00 AM - 4:30 PM

- ☐ Overview Of The Mining Industry: Property Rights, Environment, Economics And Issues
Kahtnu 2

OIL SPILL PREVENTION & RESPONSE

MONDAY, 10:30 AM - 11:45 AM

- ☐ Communicating Effectively: Oil And A Changing Arctic
Kahtnu 1

THURSDAY, 9:00 AM - 10:15 AM

- ☐ Dispersant Use Policy In Alaska
Tubughnenq 5

FRIDAY, 8:30 AM - 12:30 PM

- ☐ Oil Spill Recovery Institute Advisory Board Annual Meeting
K'enakatnu Boardroom

RURAL & TRIBAL ISSUES

MONDAY, 10:30 AM - 11:45 AM

- ☐ About LEO - The Local Environmental Observer Network - 2014 Update
Tubughnenq 5

MONDAY, 2:00 PM - 3:15 PM

- ☐ Living Lands & Waters-Inspiring Others To Take Action... One Piece Of Garbage At A Time!
Tikahtnu D

MONDAY, 3:30 PM - 4:45 PM

- ☐ Going Geospatial: Adventures In Mapping For Community Programs
Tubughnenq 4
- ☐ Marine Mammal Consumption In Alaska: Contaminants, Benefits And Risks
Tikahtnu D
- ☐ Solid Waste Problem Solving From The Ground Up - Panel Discussion
Tubughnenq 5

TUESDAY, 9:00 AM - 10:15 AM

- ☐ Assessing Risk Perception And Community Disaster Resilience
Kahtnu 1

TUESDAY, 10:30 AM - 11:45 AM

- ☐ How To Talk To Your Community About Wood Smoke Risks And Mitigation Strategies
Tubughnenq 5

Agenda By Subject

TUESDAY, 2:00 PM - 3:15 PM

- ☐ Erosion Responses And Resources
Tikahtnu D
- ☐ National Park Service In Alaska: What Is It And Why Is Their Work Important To You?
Tubughnenq 5
- ☐ Tribal Water Quality Projects
Tikahtnu C

TUESDAY, 3:30 PM - 4:45 PM

- ☐ Integrating Traditional Knowledge, Faith And Science For A Thriving Environment And Community
Tikahtnu C

WEDNESDAY, 9:00 AM - 10:15 AM

- ☐ Emergency Preparedness For Rural Residents And Communities To Earthquakes, Wildfire & Extreme Weather
Tubughnenq 4
- ☐ Shipping Out Hazardous And Potentially Harmful Materials From Rural Alaska - Success Stories
Tubughnenq 5

WEDNESDAY, 10:30 AM - 11:45 AM

- ☐ Kodiak's Renewable Energy Revelation
Kahtnu 1
- ☐ Reciprocating Internal Combustion Engines, Boilers and Incinerators
Tubughnenq 3

WEDNESDAY, 2:00 PM - 3:15 PM

- ☐ Building Environmental Occupation Endorsements For A Rural Workforce
K'enahtnu Boardroom

WEDNESDAY, 3:30 PM - 4:45 PM

- ☐ Indian General Assistance Program (GAP) Roundtable-- Mongolia To Alaska: A Young Woman's Journey
Tikahtnu C
- ☐ How Shaktoolik Plans To Survive Flooding And Erosion In The Face Of A Changing Climate
K'enahtnu Boardroom

THURSDAY, 9:00 AM - 10:15 AM

- ☐ Problems And Solutions For Dust On Village Roads
Tikahtnu C

THURSDAY, 10:30 AM - 11:45 AM

- ☐ Creating Safe And Healthy Tribal Homes
Tikahtnu C
- ☐ How Are Your Berries?
Kahtnu 1
- ☐ Small Community Emergency Response Plan (SCERP)
Tubughnenq 4

THURSDAY, 2:00 PM - 3:15 PM

- ☐ Methyl Mercury In Subsistence Pike And Burbot In Western Alaska
Tubughnenq 4

THURSDAY, 3:30 PM - 4:45 PM

- ☐ A Meaningful Role? Understanding A Key Phrase In The National Interest Lands Conservation Act
Kahtnu 1
- ☐ Bringing Science Home To Your Community
Kahtnu 2
- ☐ The Science, Culture And Policy Of Tribal Environmental Contaminant Exposure And Health
K'enahtnu Boardroom

FRIDAY, 8:00 AM - 4:45 PM

- ☐ Healthy Home Activities Across Alaska: Local Perspectives On What Works
Tubughnenq 5

FRIDAY, 8:00 AM - 11:45 AM

- ☐ Why Geotourism?
Tubughnenq 4

SCIENCE & TECHNOLOGY

MONDAY, 10:30 AM - 11:45 AM

- ☐ Ocean Science On The Outer Continental Shelf
K'enahtnu Boardroom
- ☐ Using Novel Autonomous Technology To Study And Monitor The Arctic Environment From Millimeter-Scale
Tikahtnu C

MONDAY, 2:00 PM - 3:15 PM

- ☐ Abiotic, Biotic And Biogeochemical Treatment Of Chlorinated Organics
K'enahtnu Boardroom
- ☐ Relationship-Scale Conservation
Kahtnu 2

MONDAY, 3:30 PM - 4:45 PM

- ☐ Activation Methods for Persulfate Used For In-Situ Chemical Oxidation (ISCO)
K'enahtnu Boardroom
- ☐ Going Geospatial: Adventures In Mapping For Community Programs
Tubughnenq 4

TUESDAY, 10:30 AM - 11:45 AM

- ☐ Hydraulic Fracturing Basics
Kahtnu 2

WEDNESDAY, 9:00 AM - 10:15 AM

- ☐ A Perspective: The Case For Less Emphasis On Sub-Slab Data For The Vapor Intrusion Pathway
Kahtnu 1

WEDNESDAY, 2:00 PM - 3:15 PM

- ☐ Unmanned Aircraft Systems In Alaska And The Arctic
Tubughnenq 3

WEDNESDAY, 3:30 PM - 4:45 PM

- ☐ Fieldscope Database For Social Networking, Community Research & Environmental Data Mapping
Tubughnenq 4

THURSDAY, 9:00 AM - 10:15 AM

- ☐ Out-Of-State And Natural Contributions To Baseline Atmospheric Mercury Deposition In Alaska
Tubughnenq 4

THURSDAY, 2:00 PM - 3:15 PM

- ☐ Alaska Science Catalog & The Southeast Alaska GIS Library: Working To Meet Your Geospatial Needs!
Kahtnu 1

THURSDAY, 3:30 PM - 4:45 PM

- ☐ Internet-Connected Sensors And Thermal Infrared Technology For Environmental Data Collection
Tubughnenq 3

SOC/ELDERS

THURSDAY, 2:00 PM - 4:45 PM

- ☐ Statement Of Cooperation - Executives & Elders Talking Circle
Tikahtnu C

Agenda By Subject

SOLID WASTE & RECYCLING

MONDAY, 2:00 PM - 3:15 PM

- ☐ Living Lands & Waters-Inspiring Others To Take Action . . . One Piece Of Garbage At A Time!
Tikahtnu D
- ☐ How Landfill Paperwork Is Useful For More Than Origami!
Kahtnu 1

MONDAY, 3:30 PM - 4:45 PM

- ☐ Solid Waste Problem Solving From The Ground Up - Panel Discussion
Tubughnenq 5

WEDNESDAY, 9:00 AM - 10:15 AM

- ☐ Shipping Out Hazardous And Potentially Harmful Materials From Rural Alaska - Success Stories
Tubughnenq 5

WEDNESDAY, 10:30 AM - 11:45 AM

- ☐ Fail To Plan - Plan To Fail: Seasonal Planning For Rural Alaska Landfills
Tubughnenq 5

WEDNESDAY, 2:00 PM - 3:15 PM

- ☐ Hands On Solid Waste Presentation
Tubughnenq 5

WEDNESDAY, 3:30 PM - 4:45 PM

- ☐ Purchasing Heavy Equipment - Things To Look Out For When Selecting
Tubughnenq 5
- ☐ Managing Household Hazardous Waste & RCRA Regulations As They Pertain To Universal Waste & Used Oil
Kahtnu 2

THURSDAY, 2:00 PM - 3:15 PM

- ☐ Disposal Options For Construction And Demolition Waste In Rural Alaska
Tubughnenq 5

THURSDAY, 3:30 PM - 4:45 PM

- ☐ Stump The Chumps
Tubughnenq 5

FRIDAY, 8:00 AM - 4:45 PM

- ☐ 8-Hour Rural Alaska Landfill Administrator (RALA) Training for Village Administrators
Tubughnenq 3

SUSTAINABILITY

TUESDAY, 9:00 AM - 10:15 AM

- ☐ Assessing Risk Perception And Community Disaster Resilience
Kahtnu 1

TUESDAY, 10:30 AM - 11:45 AM

- ☐ Ecosystem Assessments And Major Policy Failures
Kahtnu 1

TUESDAY, 2:00 PM - 3:15 PM

- ☐ Commercial Building Energy Efficiency As A Catalyst For Sustainability
Kahtnu 1
- ☐ Creating Sustainable Communities
Kahtnu 2

TUESDAY, 3:30 PM - 4:45 PM

- ☐ Sustainable Living: Rhodiloa Rosea Potential For High Latitude Agriculture And Sustainable Firewood
Tubughnenq 5

WEDNESDAY, 9:00 AM - 10:15 AM

- ☐ Roads To Resources And Sustainable Economies In Alaska
K'enakatnu Boardroom

THURSDAY, 3:30 PM - 4:45 PM

- ☐ Valuing Ecosystem Services In The Mat-Su Borough
Tikahtnu E

FRIDAY, 8:00 AM - 11:45 AM

- ☐ Why Geotourism?
Tubughnenq 4

YOUTH

MONDAY, 10:30 AM - 11:45 AM

- ☐ Youth And Adult Environmental Project Showcase (Part 1 of 2)
Tubughnenq 4

MONDAY, 2:00 PM - 3:15 PM

- ☐ The Power Of A Flower: Developing Community Monitoring Programs To Understand Invasive Plant Impacts
Tubughnenq 4

MONDAY, 3:30 PM - 4:45 PM

- ☐ Going Geospatial: Adventures In Mapping For Community Programs
Tubughnenq 4

TUESDAY, 9:00 AM - 10:15 AM

- ☐ High School Science Programs For Rural Students
Tubughnenq 4
- ☐ How To Prepare For An Occupation In Sustainable Energy
Kahtnu 2

TUESDAY, 10:30 AM - 11:45 AM

- ☐ Youth And Adult Environmental Project Showcase (Part 2 of 2)
Tubughnenq 4

TUESDAY, 2:00 PM - 3:15 PM

- ☐ Wildlife Tracking And Trail Cameras!
Tubughnenq 4

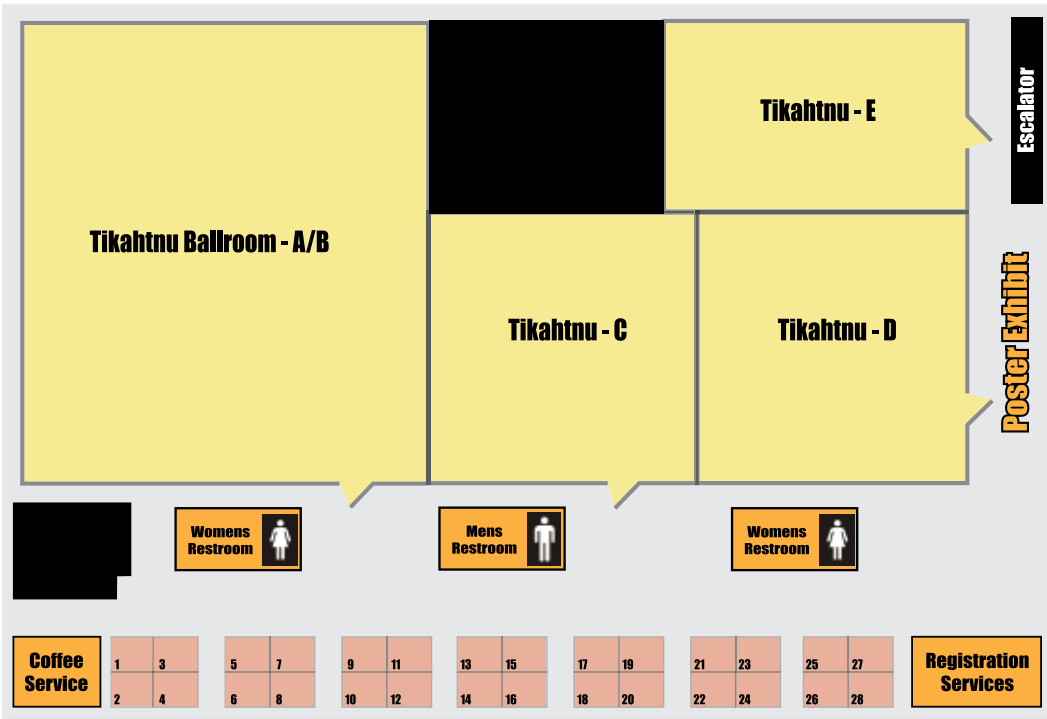
TUESDAY, 3:30 PM - 4:45 PM

- ☐ Tips For Developing A Successful Community Environmental Program For Teens
Tubughnenq 4

WEDNESDAY, 3:30 PM - 4:45 PM

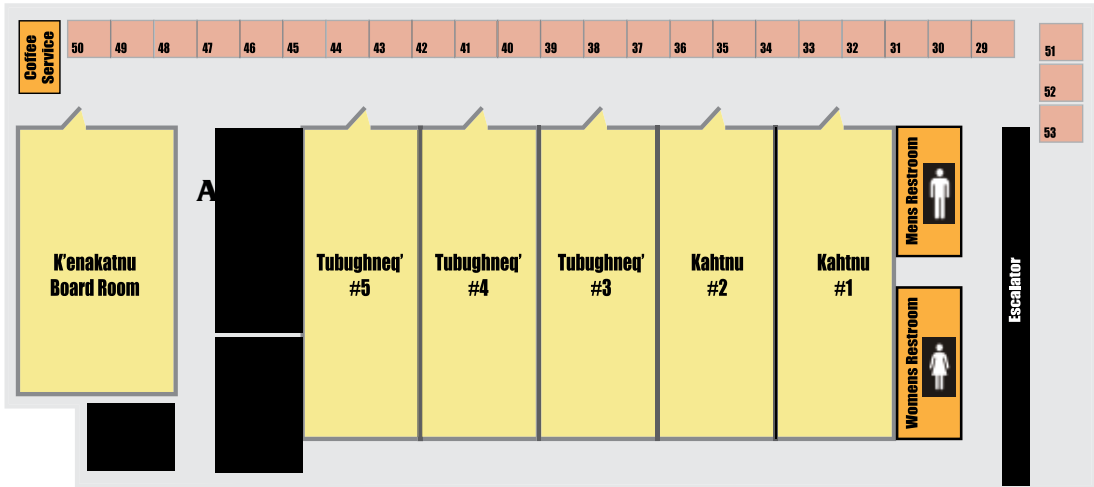
- ☐ Our Work, Our Life: Fisheries, Seafood And Maritime Careers In Alaska
Tubughnenq 3

Dena'ina Civic and Convention Center - 3rd Floor



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REGIONAL ADMINISTRATOR'S BRIEFING

This document is used to brief Dennis on meetings with External Stakeholders. Please be sure to include any key messages that you feel Dennis should share with attendees

Event: Meet & Greet with Colonel Lestochi, Alaska District, **Tuesday, February 4th**

Duration: 9:30 AM – 10:30 AM (AKDT)

Location: Alaska Operations Office

Press (Open/Closed): Closed

OVERVIEW: Colonel Christopher D. Lestochi assumed command of the U.S. Army Corps of Engineers, Alaska District, on July 2, 2012. Col. Lestochi comes to the Alaska District from the Army War College in Carlisle, Pa. He served as Deputy Chief of the Construction Division for the Alaska District from 1998 to 2001. Col. Lestochi was commissioned in the U. S. Army Corps of Engineers in 1989 from Pennsylvania State University. He holds a Bachelor of Science in Architectural Engineering and Master of Science in Civil Engineering from Penn State, as well as Master of Strategic Studies from the U.S. Army War College.

Attendees: Dianne Soderlund, EPA AOO Director; David Allnutt, EPA ETPA Director; Michael Szerlog, EPA Manager (by phone); Major Mark DeRocchi; Karen Kochenbach, Corps, Chief of the Regulatory Division; Terri Stinnett-Herczeg, Corps, Deputy Chief.

Key Messages:

1. EPA values its relationship with the Alaska District and has worked hard over the years to build and improve our interactions. Over the past year we have been communicating often on CWA §404 projects. In addition, the co-location of the Corps and EPA staff in Juneau and the placement of Department of Army interns at EPA under detail are a great example of the strength of our relationship.
2. There are large projects in Alaska that require frequent communication and coordination. EPA's CWA §404 staff routinely serve as associate reviewers under NEPA and strive to understand, from a CWA §404 perspective, the issues early on for these large projects. Early involvement and continued communication is essential in managing these projects, which are extremely sensitive and can become politicized.
3. Addressing issues involving Compensatory Mitigation is one of the top priorities for both Region 10 and the Alaska District Regulatory staff and management in FY14. We have made great strides with the development and implementation of the Statewide Interagency Review Team (SIRT), but there is still much work to be done. The joint training offered in May and the possibility of using Conflict Prevention and Resolution Center money to communicate about mitigation needs for the authorization of the Placer Mining General Permit are examples of this continued commitment.

Key Issues/Projects:

Compensatory Mitigation improvements a FY14 focus by EPA and Corps: Both agencies have been working closely together this past year to improve the state of compensatory mitigation in Alaska. Below are some examples:

1. **Statewide Interagency Review Team implementation** The Alaska District convened a Statewide Interagency Review Team (SIRT) in the fall of 2013. The SIRT is chaired by the District and includes EPA, FWS, NMFS, NRCS, ADNR, ADEC, and ADF&G. The formal “*Roles and Responsibilities Agreement*” was signed by all of the agencies. The purpose of the SIRT is to foster training and develop tools for implementation of the 2008 Final Mitigation Rule so as to achieve greater consistency in the development of compensatory mitigation banks and in-lieu fee (ILF) programs in Alaska.

It is hoped that the development of District-wide tools, templates, and procedures by the SIRT will lead not only to greater consistency, but also to better environmental outcomes and greater predictability for the regulated community. The Regulatory Guidance Letter (RGL) 09-01 is the District’s only guidance document pertaining to compensatory mitigation. The regulated community has expressed concerns about inconsistent compensatory mitigation requirements. Having a consistent mitigation framework would provide greater clarity to applicants and likely shorten permit process times.

Additionally, the SIRT could develop frameworks for functional assessment and for determining debits and credits for compensatory mitigation. We have explored a number of possibilities to support the development of a functional assessment tool, perhaps beginning with a pilot project on the North Slope.

Status: The SIRT has held 3 meetings since being convened in the fall of 2013. Managers from the State and Federal agencies will meet February 5, 2014 to receive a status report on SIRT progress thus far.

2. **Corps/EPA sponsored compensatory mitigation training:** The SIRT agencies identified training for staff that participates on IRTs as a high priority. To address this need, the SIRT will bring an IRT training course to Anchorage the week of May 12, 2014. The course will be patterned after the national course held annually at the National Conservation Training Center (NCTC) in Shepherdstown, West Virginia. The principle trainers will be Steve Martin from the Corps’ Institute for water Resources (IWR) and Palmer Hough of EPA’s Office of Water.
3. **Need for functional assessment methodology and interim approach:** Inconsistencies in how the impacts of proposed projects are evaluated and how compensatory mitigation ratios are determined adds controversy to the review of

large projects in Alaska. The Corps and applicants are greatly hampered by the lack of peer reviewed or even consensus-based tools for performing functional assessments. RGL 09-01 allows assessment based on Best Professional Judgment (BPJ). Currently, if functional assessments are performed (which is not universally true) consultants develop them with little or no interaction with agency experts. As such, these efforts are expensive to perform and often have very questionable validity for the appropriate assessment of function, condition, and services performed by given wetland systems.

EPA believes that tools need to be developed to provide for a consistent basis for functional assessments in Alaska. Some tools are available in different regions, but nothing is available for the North Slope, where many of the 404 actions with the most significant impacts are proposed to be placed in pristine, fully intact permafrost wetlands. Toward this end, we suggest that the SIRT or other interagency group work to develop a consensus based (and hopefully, peer-reviewed) portfolio of tools for use in Alaska for rapidly calculating comparative levels of wetland functions/services and/or the evaluation of wetland condition.

EPA proposes that the agencies begin with a pilot effort on the North Slope. The 2011 National Wetland Condition Assessment collected data from approximately 40 randomly selected sites of non impacted, and an additional group of targeted degraded wetland sites within the NPR-A. We have also applied for GRO (Greater Research Opportunity) funding for a fellowship to fund a student to perform a literature search and compilation of literature on the functions and services of Arctic tundra wetlands. EPA believes that if the Corps is willing, and the agencies can commit to the effort, a functional assessment technique which incorporates identified functions in a meaningful model which is based on Arctic wetlands as reference. The data sets can be used to test and validate the models developed. The development of such techniques would provide greater certainty to the applicants in the permit process, and would provide a consistent, more scientific standard for evaluating appropriate mitigation.

4. **Possible Conflict Prevention and Resolution Center funding** to discuss compensatory mitigation options for the reauthorization of the Placer Mining Regional General Permit. EPA is submitting a request to CPRC to use some leftover FY13 funds to bring professional facilitators to work with Corps, EPA, BLM, State, and other agency staff in the discussion of ways to integrate compensatory mitigation into the Placer Mining RGP. The State of Alaska has expressed an interest, as part of their review of CWA §404 Assumption, to help administer this RGP. Ensuring that it meets the intent of the 2008 compensatory mitigation rule should be a high priority.

Outstanding CWA §404(q) Actions

1. **Douglas Harbor Dredging Project**: The applicant, the City and Borough of Juneau (CBJ), for the project located in the Douglas Small Boat Harbor in Juneau,

Alaska, stated in the public notice that "[t]he applicant's stated purpose is to renovate the existing Douglas Harbor in order to meet changing moorage demand in Juneau." CBJ's proposal includes dredging approximately 30,000 cubic yards of material from the Harbor. The proposed dredged material disposal site is in Gastineau Channel, and the proposed dredged material disposal method is unconfined open water disposal via barge.

Impacts: The environmental concerns raised by EPA relate to elevated methyl mercury concentrations found in the sediments at the proposed dredge site. EPA is concerned about potential bioaccumulation of methyl mercury in the benthic environment of Gastineau Channel.

Status: The Civil Works side of the Corps awarded a contract to private consulting firm to develop a cap design and analysis on behalf of the City and Borough of Juneau. The Corps Regulatory met in November with EPA, Corps Civil Works and their contractor to go over scope and details of the plan to address EPA's concerns. EPA is waiting for CBJ to revise its permit application so that we can determine whether to end the 404(q) dispute resolution process.

2. **Nuiqsut Spur Road Project:** Kuukpik Corporation, the village corporation for Nuiqsut, proposes to build a 5.8 mile road and gravel storage pad from the Village of Nuiqsut to the junction of the CD-5 road which was permitted by the Corps following a controversial permit review. The storage pad would house an exploration camp, which would be run by Kuukpik, and would provide gravel and equipment storage. The applicant proposes to preserve 76.5 acres as compensation for the impacts of the fill.

Impacts: The proposed project would result in the discharge of 51 acres of fill for the road and storage pad. The fill would occur in a pristine area of the tundra, just outside the Colville River Delta (part would occur in a riverine complex that drains to the Colville River). The approximately 11-acre storage pad is proposed to be adjacent to the soon-to-be-built CD-5 road. The applicant has addressed some of our initial concerns but the mitigation for the direct losses, which is proposed to be preservation of 76.5 acres of tidal/coastal wetlands on Fish Creek, approximately 14 miles from the project site, is insufficient to offset the impacts. There is also no mitigation proposed for the indirect effects of the fill, which include fragmentation and degradation of wetlands surrounding the road from dust spray and dust shadow. The CD-5 permit, which is adjacent to where this road joins the CD-5 road, required a 3:1 preservation ratio for the same kinds of wetlands/condition of wetlands that this project proposes to impact, and 10% of the agreed-upon ratio to be applied to the footprint of the dust shadow. Applying the same method of calculating credits required to offset direct and indirect impacts that was applied in the CD-5

0 - Feb 2014 Colonel Meeting - Final RA Briefing Sheet.docx

permit decision would amount to approximately 245 acres of preservation required for the Nuiqsut spur road project.

Status: On September 16, 2013, Region 10 sent the Alaska District of the Corps a letter (known as a “3(b) letter”) that formally committed the agencies to a dispute resolution process. A number of discussions involving the Corps, EPA, and Kuukpik staff have ensued. The 3(b) letter requires the Corps to submit any draft proposed final permit to EPA for review. The Corps has stated that it is close to making a decision, but we have not been informed of their position on compensatory mitigation. Recent discussions with a representative of the Kuukpik Corporation indication that Kuukpik may be willing to accept greater mitigation ratios (thus removing EPA’s final objection to the permit) and work with EPA and the Corps to establish a mitigation bank for the North Slope. This would be a very positive resolution to this dispute.

Large-Scale NEPA/404 Projects

1. **Deep Draft Port Feasibility Study/EIS**-Proposal by Corps Water Resources for a deep draft port and/or at Nome and/or Port Spencer on the Seward Peninsula to support emergency response and economic development. Project involves 309, 404, Ocean Dumping and emergency response. EPA has forwarded a draft Cooperating Agency MOU to the Corps for their review. We expect that it will be signed within the next week or so. In the interim we are working closely with the Corps, meeting biweekly or more often if needed. Currently the Corps anticipates publishing the Notice of Availability for the Draft EIS in early March. The Corps has committed to providing us early review of the document when it is submitted to the editor. The Corps has provided the economic analysis and hydraulic engineering report to EPA for review and input. EPA’s anticipated MPRSA action is de-designation of current disposal sites (Nome East and West). Corps can do temporary designation under their 103 authority for a period of 5 years, with a 5 year extension if need for disposal is identified (not anticipated by the Corps). Ocean Dumping program has determined that this action does not merit voluntary NEPA compliance. Primary 309 concern is that although an extensive process has been followed to identify these two alternatives, will the final alternatives represent the required reasonable range of alternatives for a NEPA analysis. Study/EIS is also on a “fast track” under the Corps’ “SMART Planning” process.
2. **BLM Greater Mooses Tooth-1** Supplemental EIS and Conoco Phillips Alaska 404 permit application-This proposal, (formerly known as CD-6), is for the first development project within the National Petroleum Reserve-Alaska. Conoco Phillips is proposing a 7.8 mile road from CD-5 to the GMT-1 drill site, a single 11.8 acre pad for 8 to 33 wells, 8.4 miles of elevated pipelines, two bridge crossings of streams, and associated support infrastructure. The project was

previously analyzed under the BLM Alpine Satellites EIS in 2004. Since then, Conoco Phillips has further reduced the footprint and repositioned the pad, resulting in less fill. Draft Supplemental EIS and 404 Public Notice are expected in early February.

3. **Juneau Access Transportation Improvements Project:** Project is to improve surface transportation between Juneau, Haines and Skagway (increase traffic volume & frequency, decrease travel time). ADOT and FHWA have initiated a second supplemental EIS to update project alternatives (in response to court decision requiring stand-alone alternative for improved Alaska Marine Highway System assets) and cost estimates; further evaluate project impacts and mitigation measures; and identify Alternative 2B (East Lynn Canal Hwy to Katzehein with shuttles to Haines and Skagway) as its preferred alternative. EPA and the Corps are cooperating agencies and recently received the PDSEIS for a 30-day review. ADOT has applied for a new permit (Corps determined previously approved permit was no longer valid) for Alternative 2B. DSEIS is expected this spring. Current concerns include compliance with the 2008 Final Compensatory Mitigation Rule as well as inadequate analysis of impacts in original EIS and first supplemental EIS, particularly for impacts to Berner's Bay. EPA rated both original Draft EIS and first Draft SEIS EO-2, although Final SEIS did address most of our concerns. We also sent 3(a), 3(b), and 3(d) letters to the Corps on the Public Notice issued with the Supplemental EIS.

Project History: In 1997- DEIS. EPA rates DEIS as "EO-2" based on aquatic impacts and poor analysis; in 2005- SDEIS. EPA rates SDEIS as "EO-2" for similar reasons; in 2006- FEIS & ROD. FHWA decides to build Alternative 2B. Corps issues 404 public notice. **EPA sends Corps 3(a) & 3(b) letters.** 2 interagency meetings held to discuss EPA's comments; and in 2007, 2008- Corps works with ADOT, FHWA & EPA to address EPA's comments and **EPA sends Corps 3(d) letter.**

Impacts: Previously the proposal was for several hundred acres of aquatic resources including direct impacts within the Tongass National Forest and secondary impacts near Berners Bay and the Katzehein River Delta. The current information lists 61 acres of wetlands and 32 acres inter- and subtidal, and 5.7 acres in Berners Bay "sub-region".

Status: PDSEIS for Cooperating Agency review expected January 2014 with a DSEIS expected February 2014.

4. **The Susitna-Watana Hydroelectric Project** would involve construction of a dam on the Susitna River at river mile 184, approximately halfway between Anchorage and Fairbanks. The 735-foot high dam would be the second tallest in the U.S. and would create a reservoir 42 miles long and up to 2 miles wide. Installed capacity would be 600 MW, with the average annual generation projected to be 2800 GW-hrs. Load-following operation (i.e., releasing water

from the reservoir synchronous with electricity demand) is proposed. The project proponent, Alaska Energy Authority (AEA), has described the project as scalable up to an 880-foot high dam.

Impacts: The proposed project would alter the physical, chemical, and biological characteristics of the Susitna River from the area of impoundment to the River's mouth at Cook Inlet. In order to generate electricity during the winter, the project would convert approximately 40 river miles of the main stem of the Susitna River and 15 miles of tributary streams from riverine to reservoir environment. An estimated 10 miles of river would alternate between riverine and reservoir habitat. An estimated 20,000 acres of habitat would be flooded, and the reservoir would impede traditional migration routes of caribou and other wildlife. The storage of summer flows for release in the winter would alter the river's hydrology, as well as water temperature and chemistry. Peak summer discharges will be reduced and delayed by an average of two months, and winter flows would increase by four or five times. The daily flow fluctuations associated with load-following would contrast completely with the existing stable winter flows. Flow fluctuations would also alter ice processes on the river and impact use of the river corridor for navigation during both winter and summer. The reservoir would trap virtually all upstream sediment and wood, resulting in changes to the river's pattern, dimension, and profile downstream of the project. These physical changes will alter the aquatic and riparian habitats available for fish and wildlife. The dam will block sixty miles of Chinook habitat.

Status: FERC will be preparing an EIS for the project. EPA, the Corps and USDA Rural Utilities Service intend to be NEPA Cooperating Agencies. AEA is on the verge of submitting its Initial Study Report (ISR) summarizing the results of the studies conducted during 2013. AEA has requested a 120-day extension of time to submit the ISR; and FERC will issue a decision on the request prior to February 3.

The project was recently dealt a blow when Governor Parnell's proposed budget funded the project at 10%. The Governor is seen as the chief patron of the project. He explained that further funding for the project would be contingent on AEA securing access to land at the proposed dam site and within the reservoir inundation zone. The lands in question are owned by Alaska regional and village corporations.

On January 28, 2014, FERC responded to AEA's request. FERC granted AEA's request to postpone submission of the ISR by 120 days until June 3, 2014. FERC also provided the same additional 120 days to the stakeholder review of the ISR. The new date for the ISR meeting is October 16, 2014. AEA did not request additional stakeholder review

time, but multiple stakeholders did request the additional time in comments they filed in response to AEA's request.

4. **Chuitna Coal Mine:** PacRim's proposed surface coal mine is located on the west side of Cook Inlet near the Native Village of Tyonek (NVT) and the community of Beluga, approximately 45 miles west of Anchorage. The project would extract low sulfur sub-bituminous coal from the Beluga Coal Field for a minimum 25-year life of the mine, with a production rate of up to 12 million tons per year for export. It would be largest coal mine in Alaska's history.

Impacts: Project documents indicate that the mining operation would result in the direct loss of approximately 4,000 acres of wetlands, 200 acres of lakes and ponds, and nearly 100 linear miles of headwater stream channels, 11 miles of which are known to support anadromous fish. The proposed mine's dewatering effluent, which would not meet current water quality standards for several metals, could be discharged to the surface or to Cook Inlet.

Status: EPA had previously developed an EIS for development of this mine. The Corps is currently supplementing the EIS. The 404 PN will be issued concurrently with the draft Supplemental EIS (SEIS). The expected timeframe is late 2014. EPA has reviewed and commented on several preliminary draft sections of the SEIS, including the proposed action, alternatives, and the Corps' proposed approach for the cumulative impacts analysis. EPA has received responses to those comments, but has yet to receive updated drafts. EPA is currently reviewing the updated wetlands functional assessment report. The Corps continues to work with NVT, the State Historic Preservation Office, PacRim, and the Advisory Council on Historic Preservation to address potential impacts to cultural resources identified in the project area. The Corps is currently revisiting the Purpose and Need Statement for the SEIS, and continues to work with PacRim to identify alternatives to the proposed action for consideration in the SEIS. EPA has asked to be involved in those discussions. The Corps is working with the State Surface Coal Mining Program, PacRim, and the Alaska Mental Health Trust (land owner) to determine the post-mining land use for the project area. The selected post-mining land use will be a significant factor in determining mitigation and restoration options post-mining. EPA has asked to be involved in those discussions. EPA and the Native Village of Tyonek—IRA Council (NVT—IRA Council) entered into a Memorandum of Understanding (MOU) in late 2012 for the purpose of maintaining effective consultation and coordination between the EPA and the NVT—IRA Council regarding the proposed Chuitna Coal Project.

5. **Donlin Gold Mine Project:** The proposed Donlin Gold Mine is located on the Yukon-Kuskokwim Delta in southwest Alaska, approximately 120 miles upstream from Bethel. The large gold deposit is on lands owned by the Kuskokwim Village Corporation (surface) and Calista Regional Corporation (subsurface). The proposal is for a two square mile open pit mine. The waste rock would include naturally

occurring mercury and arsenic. Besides the pit, the project would include a waste rock facility, tailing storage facility, overburden stockpiles, fuel storage tanks, power generation facility, water treatment facility, sewage treatment facility, utility corridors, operations camp, and various ancillary facilities, as well as a 5,000-foot gravel airstrip, a port site on the Kuskokwim River, and an all-season access road from the port site to the mine. A 313-mile long, 14-inch diameter buried pipeline would transport natural gas from Cook Inlet (Beluga) to supply the power generation facility.

Impacts: The total temporary and permanent surface impacts exceed 16,000 acres, of which approximately 42% (nearly 7,000 acres) are wetlands. The project would also directly impact approximately 75 linear miles of streams.

Status: On October 19, 2012, Region 10 agreed to be a cooperating agency on the development of the EIS. The EPA has signed a Memorandum of Understanding with the Corps, along with the BLM, USFWS, PHMSA, the State of Alaska, and seven Tribal Government to clarify roles and responsibilities, despite concerns with certain provisions, such as retention of experts, limited participation by Tribes, and participation on workgroups. The public scoping period concluded at the end of March 2013. The cooperating agencies have been working with the Corps on identifying data gaps/needs, completing review of draft Chapter 1 (Purpose and Need) and review of draft Chapter 2 (Alternatives). The Corps is evaluating adjustments to the EIS schedule to accommodate requests by the cooperating agencies.

EPA's Bristol Bay Watershed Assessment: The objective of the assessment is to use the best available science to assess the potential impacts of large scale mining on the Kvichak and Nushagak River drainages.

Background: Nine Bristol Bay Tribes, other tribal organizations and many groups and individuals, who were concerned about the proposed Pebble Mine, asked EPA to use our authority under Section 404(c)* of the Clean Water Act (CWA). Two Bristol Bay Tribes, other tribal organizations, the Governor, and a few others including Pebble Limited Partnership asked us to let the standard NEPA/CWA §404 review process proceed. After carefully considering all of the requests, EPA decided to conduct a watershed assessment to provide a scientific basis for any future decisions. (*Section 404(c) authorizes EPA to restrict, prohibit, deny, or withdraw the use of an area as a disposal site for dredged or fill material if the discharge will have unacceptable adverse effects on municipal water supplies, shellfish beds and fishery areas, wildlife, or recreational areas). The Final Assessment was released on January 15, 2014.

Preliminary Results/Peer Review:

- The assessment concluded that even a modern mine that is constructed and operated in accordance with its permit will have a negative effect on the salmon fishery and associated wildlife and tribal culture. A failure of part

of the mining infrastructure, such as a tailings dam, has a lower probability of occurrence but higher consequences.

- The assessment has been peer reviewed by 12 independently selected scientists. We have received the final report from the peer reviewers but have not made it available to the public yet. The response to comments summary is expected to be released shortly.
- About 237,000 public comments were received on the first draft, and 890,00 on the second draft. The vast majority of the input received does not support large-scale mining in Bristol Bay. Public interest remains very high.
- The assessment is not a decision document. It will be used to inform any potential future actions by the Agency.

Status:

- The EPA Bristol Bay watershed assessment is available online at www.epa.gov/bristolbay.
- Once the response to comments has been published and made available to the public, the watershed assessment process will be complete. EPA has been pressed, and will likely continue to be pressed, to initiate 404(c) proceedings on the area. EPA looks forward to the continuing exchange of information and discussions with the Corps.

CWA 404 Assumption and Wetland Program Development Grant

CWA 404 Assumption: The Alaska legislature authorized the state Departments of Environmental Conservation and Natural Resources to investigate the possibility of assuming the 404 program and provided funding for several positions to work on that investigation.

Background: Under the CWA, a state or tribe seeking to administer a Section 404 program must submit a request for assumption to the EPA and demonstrate that their program meets the requirements of CWA Section 404(h) and its implementing regulations. This includes a requirement that the state or tribe's program: (1) has the authority to issue permits consistent with and no less stringent than the Act and implementing regulations, including the Section 404(b)(1) Guidelines; (2) has an equivalent scope of jurisdiction for those waters they may assume; (3) regulates at least the same activities as the federal program; (4) provides for public participation; and, (5) has adequate enforcement authority.

Once the EPA approves a Section 404 program, the state or tribe assumes all responsibility for the Section 404 permitting program under its jurisdiction, determines what areas and activities are regulated, processes individual permits or general permits for specific proposed activities, and carries out compliance and enforcement activities. By statute and regulation, the EPA has a general oversight responsibility of the state or tribal program including, for example, reviewing

draft permits for which review has not been waived. The EPA reviews approximately one to two percent of the Section 404 permits issued by Michigan and New Jersey.

The EPA provides support to states and tribes that want to assume the Section 404 program by engaging a state or tribe when it expresses an interest in assumption, remaining engaged during development of the assumption package, and reviewing program applications consistent with the CWA and implementing regulations. Moreover, the EPA continues to play a critical oversight role if and when a state/tribal program has been approved.

Status: The state is nearing completion of its hiring and has begun investigating issues such as which waters are assumable and what the workload would be. They are also engaging in extensive outreach, so far primarily to industry groups, but now also at the AFE.

Wetland Program Plan (WPP) development by ADEC under our Wetland Program Development Grant. ADEC was awarded a wetland program development grant by EPA, to write a wetland program plan over two years, as a part of the State of Alaska's efforts to assume Clean Water Act Section 404 permitting. ADEC's goal is to develop a comprehensive WPP.

Status: The state completed a WPP outline and a WPP presentation was in December 2013. They plan to hold a state wetlands work group meeting in January 2014 followed by a State wetlands program development workshop in April 2014. Their goal is to develop a Draft WPP by June 2014 and submit to EPA by Sept 2014.

Clean Water Act Jurisdiction

1. **WOTUS Proposed Rule:** Corps and EPA HQ are poised to publish a proposed rule to update and clarify the definition of waters of the U.S. (WOTUS) that are subject to Clean Water Act regulation. The target for publication is reportedly mid-February. HQ has not yet shared the proposed rule with the regions (due to describe it to us on 29 January), but a leaked version is based heavily on an extensive synthesis of the scientific rationale for jurisdiction over various types of waters. Among other things, the proposed rule would clarify that all tributaries and all adjacent waters are jurisdictional, clarify the definition of adjacency, and clarify which waters are *not* jurisdictional. Together with the science synthesis, the proposed rule formally adjusts the WOTUS definition in light of *SWANCC* and *Rapanos*, U.S. Supreme Court rulings that limited jurisdiction to waters that have a significant nexus to traditionally navigable waters. Existing exemptions related to agriculture and ditches remain the same.
2. **Reversal of Fairbanks Jurisdictional Determinations:** Following remand on administrative appeals, the Corps Alaska District has reversed two originally positive jurisdictional determinations (JDs) in the Fairbanks area, based on

uncertainty about the effect of a 2010 Alaska District Court case known as *Great Northwest*. The JDs involve a very large wetland crossed by a road; *Great Northwest* brought into question the effect of such linear fills on jurisdiction. The Region brought the case to the attention of EPA and Corps headquarters, who are currently engaged in discussions. The agencies agree that linear fills should not sever jurisdiction; at issue is how best to reconcile that position with *Great Northwest*.

Aquatic Resource Unit Contacts: Michael Szerlog, Manager, Aquatic Resources Unit (ARU); Mary Anne Thiesing, Wetland Coordinator and Regional Wetland Ecologist. **Alaska Operations Office ARU Staff:** Matthew LaCroix, Mark Jen, and Gayle Martin; **Seattle ARU Staff working on AK issues:** Heather Dean, Becky Fauver, and Chan Pongkhamsing.

RA/DRA Briefing Paper
Exploration and Geotechnical NPDES General Permits in the Arctic
January 27, 2014

Purpose: Status update on the Geotechnical GP, exploration activity, and workload implications

Bottom-Line Issues:

- Exploration in the Chukchi Sea in 2014 by Shell is not likely due to the recent 9th Circuit Court's finding that BOEM's SEIS is flawed.
- It is not yet clear whether this development will affect Shell's plans for geotechnical work.
- Exploration in the Beaufort Sea in 2014 was not planned due to lack of available equipment that would allow Shell to meet the terms of the Conflict Avoidance Agreement with the Alaska Eskimo Whaling Commission.

Status of the Geotechnical NPDES General Permit:

- The draft permit was released for a 66-day public comment period on November 22, 2013; public meetings, tribal consultations, and hearings were held January 6-10, 2014.
- In response to requests from AEWC and the Inupiat Community of the Arctic Slope, EPA extended the comment period to February 19.

Overview of Concerns re: Geotechnical GP:

- Tribal and local leaders and subsistence commissions have expressed concerns that:
 - Only zero discharge is acceptable.
 - The permit should go farther to protect ocean resources, mammals, and whale hunting.
 - Industry self-monitoring provisions are not acceptable.
 - Agencies are not showing respect for the land and sea or listening to the communities; joint workshops with other federal agencies should be scheduled.
- Shell has expressed concerns that:
 - The draft permit's data collection requirements will interfere with development plans.
 - Permit requirements that increase time in the field may result in greater impacts.
 - Environmental monitoring requirements and timing restrictions are overly stringent compared to potential impacts and lack a reasonable basis.
 - Inconsistencies between EPA and DEC permits affect Shell's ability to operate efficiently.

Timing and Work Load Considerations:

- Based on a February 19 comment deadline, it may be difficult to issue a final permit by June 1 and have an effective permit by July 1, the start of the open-water construction period.
- Shell's activities may thus be delayed until later in the season, which lasts until October 31.
- The Ninth Circuit appeal of the Beaufort and Chukchi exploration general permits is underway. Petitioner's opening brief is due March 21; EPA's reply is due April 21. This schedule overlaps with responding to comments and finalizing the Geotech permit and ODCE.
- Petitioners may renew their FOIA request for internal agency records for which they were previously denied a fee waiver. If this occurs, significant staff resources will be needed to review 2500+ documents during essentially the same time frame.

Red Devil Mine
January 28, 2014 Meeting/Conference Call
Internal Briefing Paper Not for General Release

Status Update:

- In December 2013, after several years of prompting by EPA and ADEC, BLM submitted an Engineering Evaluation/Cost Analysis (EE/CA) for a non-time critical removal action for the processing area at Red Devil Mine.
- Based on EPA's and ADEC's review, the Agencies agree with BLM's recommended alternative to pull back the bank of Red Devil Creek, thus preventing erosion of material primarily contaminated with mercury, arsenic and antimony and other metals, into the stream. This contaminated material is then transported via the creek a short distance and discharged into the Kuskokwim River where it is dispersed by the river. The Kuskokwim River has a fish consumption advisory due to mercury in fish.
- The recommended alternative will excavate approximately 5000 cubic yards of contaminated material that will be stored at temporary stockpiles within the area of contamination. At the end of the early action, the stockpiles will be covered by an impermeable synthetic cover. No soil or vegetative cap is necessary since the stockpiles are temporary. Sediment control measures will be installed to prevent the erosion of the excavated material. The stream bed will not be restored at this time. This area probably won't support much aquatic life until the Red Devil Creek is restored, which will occur after the remedial action addresses the entire processing area, likely several years from now.
- Major issues noted in EPA's review were BLM's interpretation of ARARs and the lack of clear justification for what is driving this action. BLM says they understand the issues and will revise the ARARs accordingly. Review of the EE/CA continues.
- The schedule for the early action is tight. The EE/CA should be finalized by mid February. A public comment period is projected for March. In the past BLM has used public comment meetings as the equivalent of tribal consultation. EPA uses a different process where consultation and public meetings are distinct actions. It is not clear that BLM has changed its approach.
- Following the public comment period, the Action Memo and workplan will be negotiated and approved. During this time BLM will also have to select a contractor. Since most material and equipment has to be barged to the mine site, work cannot begin until the river is open to traffic in early June. If the project stays on this schedule, the action should be completed during the 2014 field season, which ends in mid-September. For costing purposes, BLM is estimating three months of work.
- We are trying a new process for finalizing the Feasibility Study (FS). It is being revised in a piecemeal fashion. At this time, identifying the ARARs remains a major issue as well as ADEC's request to establish cleanup goals based on a cumulative risk.
- After assessing the data in the RI, the Agencies have decided to use an interim action approach to the site. The interim action is to address the contaminated soil and sediment. By addressing the main sources of contamination it is anticipated that the

contamination in the groundwater and the river sediment will become less, resulting in the need for a less robust cleanup. It will take an undetermined amount of time to accumulate the data necessary to determine what action is necessary based on the changes in the conditions at the site. At that point the final ROD will be written.

- The Remedial Design/Remedial Action (RD/RA) schedule for the interim action is very approximate. Currently the FS is projected to be finalized in early fall 2014, incorporating information gained during this year's removal action as appropriate. A Proposed Plan could then be finalized by mid spring 2015, with the public comment period held before spring breakup. The Record of Decision will be finalized in the winter of 2016. Depending on how long it takes to finalize the design, cleanup would start no sooner than 2017.

Background:

- Red Devil Mine (RDM) is an abandoned mercury mine located wholly on federally owned land on the banks of the Kuskokwim River, 250 miles west of Anchorage and 1.5 miles southeast of the Native Village of Red Devil.
- RDM is probably the largest source of mercury, both currently and historically, to the Kuskokwim River. The river is host to one of the largest native salmon runs in the world and over 15,000 people residing in Alaska Native Villages downstream of RDM rely on salmon, pike and other fish for subsistence.
- The Alaska Department of Health and Social Services has issued a restrictive fish consumption advisory for pregnant women, women of childbearing age, and children which, if followed, could limit sources of protein for subsistence fishers.

Issues: (internal)

- The Region 10 will be attending the Alaska Forum on the Environment next week and plans to discuss site status with the Regional Director of BLM, Bud Cribley as well as Larry Hartig, ADEC per December 18, 2013 email from Mathy Stanislaus to Mike Hickey and Jody M. Barringer/OMB.
- FFRRO has indicted the Regions should not work on non- NPL site. However, FFRO has indicted this Region may receive \$200K for RDM so the Region can continue its oversight work.

Points of Contact:

Matt Wilkening, RPM (208) 378-5760

Dennis Faulk, Program Manager (509) 376-8631

Salazar, Vicky

From: Cohen, Lori
Sent: Wednesday, January 29, 2014 1:57 PM
To: McLerran, Dennis
Cc: Soderlund, Dianne; Wilkening, Matt; Faulk, Dennis; Cora, Lori; Salazar, Vicky
Subject: FW: Red Devil Mine, BLM and Tribal Consultation

FYI – an update from Matt Wilkening below for your discussions with Bud Cribley on this topic next week.

Vicky- please print this email for Dennis' briefing book for AFE along with the other info I sent you. Thanks!

Lori

From: Wilkening, Matt
Sent: Wednesday, January 29, 2014 1:52 PM
To: Cohen, Lori
Cc: Faulk, Dennis; Cora, Lori; Soderlund, Dianne
Subject: Red Devil Mine, BLM and Tribal Consultation

Lori,

Just to close the loop on yesterday's discussion on BLM's approach to tribal consultation. This afternoon was our project manager conference call. Part of the call was to discuss the upcoming public comment period for the EE/CA. BLM's approach to outreach is to continue to blend the community meeting with the government meeting. It sounded to me that the letter they are sending out invites the various villages to set a meeting date w/ BLM. Whether this meeting is to be a public forum or G2G is open ended. Mike says a BLM Official will accompany his group to these outreach meetings so G2G meetings can "spontaneously" be held if they get such a request once they are in the villages, i.e. not prior to scheduling any type of meeting with the village.

In summary, BLM's approach remains different from EPA's approach in that we would make specific enquiries to the Tribal Governments as to whether they desired a G2G meeting.

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Salazar, Vicky

From: Cohen, Lori
Sent: Tuesday, January 28, 2014 11:24 AM
To: Salazar, Vicky
Cc: Wilkening, Matt; Soderlund, Dianne
Subject: For RA AFE briefing book
Attachments: Red Devil McLerran Jan 2014 update AFE.docx

Hi Vicky,

Dennis asked that this be included in his briefing book -this is regarding Red Devil Mine. Please print the email and attachment for him.

Thanks!
 Lori

-----Original Message-----

From: Stanislaus, Mathy
Sent: Wednesday, December 18, 2013 7:02 AM
To: Mike Hickey; Jody M. Barringer
Cc: McLerran, Dennis; Cheatham, Reggie; Bertrand, Charlotte; Cohen, Lori; Karl, Richard; Fine, Ellyn; Breen, Barry
Subject: RDM Followup

Mike,

Thank you for taking the time to discuss the status of the Red Devil Mine site cleanup on December 11, 2013. The following summarizes our agreed upon next steps:

- 1- EPA Region 10 staff received the draft early action EE/CA document earlier this week. Region 10 will review this document and in early January, provide an update regard to how the document reflects EPA and the state's prior discussions regarding the early action options and proposed approach. Assuming we do not see major issues with the document, this will be a strong indicator that work continues to progress well on this project.
- 2- Dennis McLerran will check with Bud Cribley, BLM's Alaska Director, to ensure that BLM agrees to ensure the BLM is comfortable with our proposed path forward and that a Technical Assistance Understanding (TAU) will not be pursued at the site.
- 3- Dennis will also speak with Larry Hartig, Director, Alaska Dept of Environmental Conservation, about the RDM site during the Alaska Forum on the Environment in early February, and explain our approach to overseeing this work - that is, focusing on the work progressing at the site and his commitment with Bud Cribley to resolve any issues that arise quickly, including those raised by the state. Dennis will also ask if ADEC can speak to the AG's office as well.
- 4- Mathy will memorialize these discussions/agreements in a letter to the AG.

I hope this captures our agreements.

Thank you,
 Mathy

Salazar, Vicky

From: Combes, Marcia
Sent: Tuesday, January 28, 2014 10:53 AM
To: Tyler, Kendra; Salazar, Vicky
Cc: Soderlund, Dianne
Subject: Briefing info for Dennis' upcoming AK trip

Hello Kendra and Vicky—

Per Dianne's request, I am sending information on the U.S. Arctic Research Commission to include in Dennis' briefing package for his pending trip to Alaska next week. Please let me know if there is anything else you need in the way of information for this particular briefing topic. Thank you!

U.S. Arctic Research Commission (USARC)—An independent federal agency that advises the President and Congress on domestic and international Arctic research through recommendations and reports. There are 7 Commissioners, appointed by the President, including 4 members from academic or research institutions; two members from private industry with commercial activity in the Arctic; and one member from among the indigenous residents of the US Arctic. The Director of the National Science Foundation serves as an ex officio eighth member. Former Alaska Lt. Governor Fran Ulmer is currently the Chair of the Commission. There are also 3 Commission Staff members, including the Deputy Executive Director in Anchorage, Cheryl Rosa.

Major recommendations of the Commission on Arctic research policy, program priorities, and coordination are published in the Commission's biennial Report on Goals and Objectives for Arctic Research. The 2013-2014 report (link below) highlights the following **5 Priority Research Goals**:

- **Goal 1** Observe, Understand, and respond to Environmental Change in the Arctic
- **Goal 2** Improve Arctic Human Health
- **Goal 3** Understand Natural Resources
- **Goal 4** Advance Civil Infrastructure Research
- **Goal 5** Assess Indigenous Languages, Identities, and Cultures

There are a variety of entities in Alaska working towards improving health outcomes in rural Alaska by providing and improving water services in villages. The USARC is coordinating these groups so that this work is maximally efficient and ideas can be shared across federal, state, Alaska Native, and academic groups. The group we coordinate is called the **Alaska Rural Water and Sanitation Working Group** and their work is directly applicable to the USARC's priority goal of Improving Arctic Human Health. As part of this coordination the USARC has hosted three workshops focusing on specific water and wastewater services in villages, the fourth is scheduled for January 30, 2014. The group consists of representatives from USARC, CDC, ADEC, EPA, ANTHC and the Yukon Kuskokwim Health Corporation. Links to the previous workshops:

<http://www.arctic.gov/water-san/workshops.html>

Link to the 2013-2014 Report on Goals and Objectives for Arctic Research:

http://www.arctic.gov/publications/goals/usarc_goals_2013-14.pdf

January 28, 2014

State Review Framework Review of ADEC's NPDES and CAA Enforcement Programs

Suggested Talking Points : Dennis McLerran meeting with Larry Hartig and Lynn Kent

Background Information:

- All State enforcement programs reviewed every 4-5 years under the national SRF.
- The SRF takes a look at a 1 year period to assess a State's performance for 5 areas: inspections, data, violations, enforcement, and penalties. It uses "frozen" data from the national system, along with file reviews to assess how a State is performing compared to national goals
- This is the third review for ADEC's CAA enforcement program and the first for the APDES enforcement program.
- Findings fall into 3 categories: Meets or Exceeds Expectations, State Attention, State Improvement. Any finding for State Improvement requires an action plan with milestones that are tracked in a national database.
- All data are public (on the EPA OECA Dashboard) and the reports are public as well.

Talking Points:

Process:

- Region 10 completed the data analysis and file reviews this past summer. While we hoped to get a draft report(s) to ADEC for their review in the fall, we've been delayed due to government shutdown, holidays, and HQ review.
- We plan to send the CAA draft report for their review the week of Feb 3.
- The draft APDES report is taking longer and still has to go through review at HQ but we are aiming for late Feb/early March.
- We appreciate the engagement of their staff and managers during the review. Region 10 managers have been staying in communication with ADEC managers on both the process and some preliminary results.

Results:

- I have not had a full briefing, and the review teams are still coordinating with HQ, but here is a preview:
- The ADEC CAA enforcement program is solid, with a few areas that the State will likely need to attend to (State Attention), but we are not seeing any findings for State Improvement.
- The APDES enforcement program has a significant number of State Improvement findings across all 5 elements – from data and inspections, to enforcement and penalties. Inspection coverage and formal enforcement are two areas of particularly high concern. We are concerned and know that you will be too.
- You may recall from earlier PPA/PPG discussions over the last few years our shared concern that ADEC would not rate well under the SRF for APDES given ADEC's early focus on permits. Ed and Lauris along with their managers and staff have been communicating regularly with Michelle Hale and her managers over the last year or two to identify problems and see where we could help.
- The communication and working relationships of these teams are strong and provide a good foundation for us to identify how to improve the program and to prioritize where we start. We have a ways to go on this, and will need your engagement and commitment to implement improvements to the program.

Cumulative and Combined Effects Analyses January 28, 2014

Cumulative Effects Analysis under NEPA

In the U.S., cumulative effects are evaluated as part of the National Environmental Policy Act (NEPA) process, which is required for nearly all major federal actions. States with NEPA-equivalent requirements for state actions also evaluate cumulative effects. Occasionally government agencies or non-governmental entities will undertake a cumulative effects analysis for a particular purpose outside of the NEPA or state-equivalent processes. Guidance for evaluating cumulative effects has been developed by the President's Council on Environmental Quality (CEQ) ("Considering Cumulative Effects under the National Environmental Policy Act", January 1997), and is followed by the lead federal agency undertaking the NEPA analysis, and is often referenced or utilized by states and other entities carrying out such evaluations.

The NEPA regulations define cumulative effects as the "impact on the environment which results from the incremental impact of the action when added to other past, present, and reasonably foreseeable future actions regardless of what agency (Federal or non-Federal) or person undertakes such actions" (40 CFR 1508.7). Cumulative effects can result from individually minor, but collectively significant actions that take place over time. The CEQ guidance describes methods to identify these impacts on the human environment and focuses on the mechanics of identifying the spatial and temporal "boundaries" of the cumulative effects. Often the action agency is informed of appropriate boundaries and affected resources early in the scoping process by project stakeholders.

Cumulative impact analysis is considered an important and critical part of an environmental impact analysis because it is generally understood that most significant effects, particularly those adverse in nature, are caused by the synergistic and additive effects of many actions over time.

Combined Effects Analysis

There are many EPA activities that do not trigger the requirements of NEPA, such as issuance water discharge permits that are not new sources. For example, on Alaska's North Slope, cumulative impacts from multiple industrial activities, particularly oil and gas, are a major concern to local residents and tribal governments. In a recent ocean discharge criteria evaluation for an Arctic oil and gas geotechnical discharge permit, EPA examined the accumulation of similar effects from other oil and gas discharge permits issued by the agency. While not a NEPA-required cumulative effects analysis, the combined effects evaluation demonstrates that the agency has considered and disclosed the potential for these impacts to occur on the receiving marine environment.

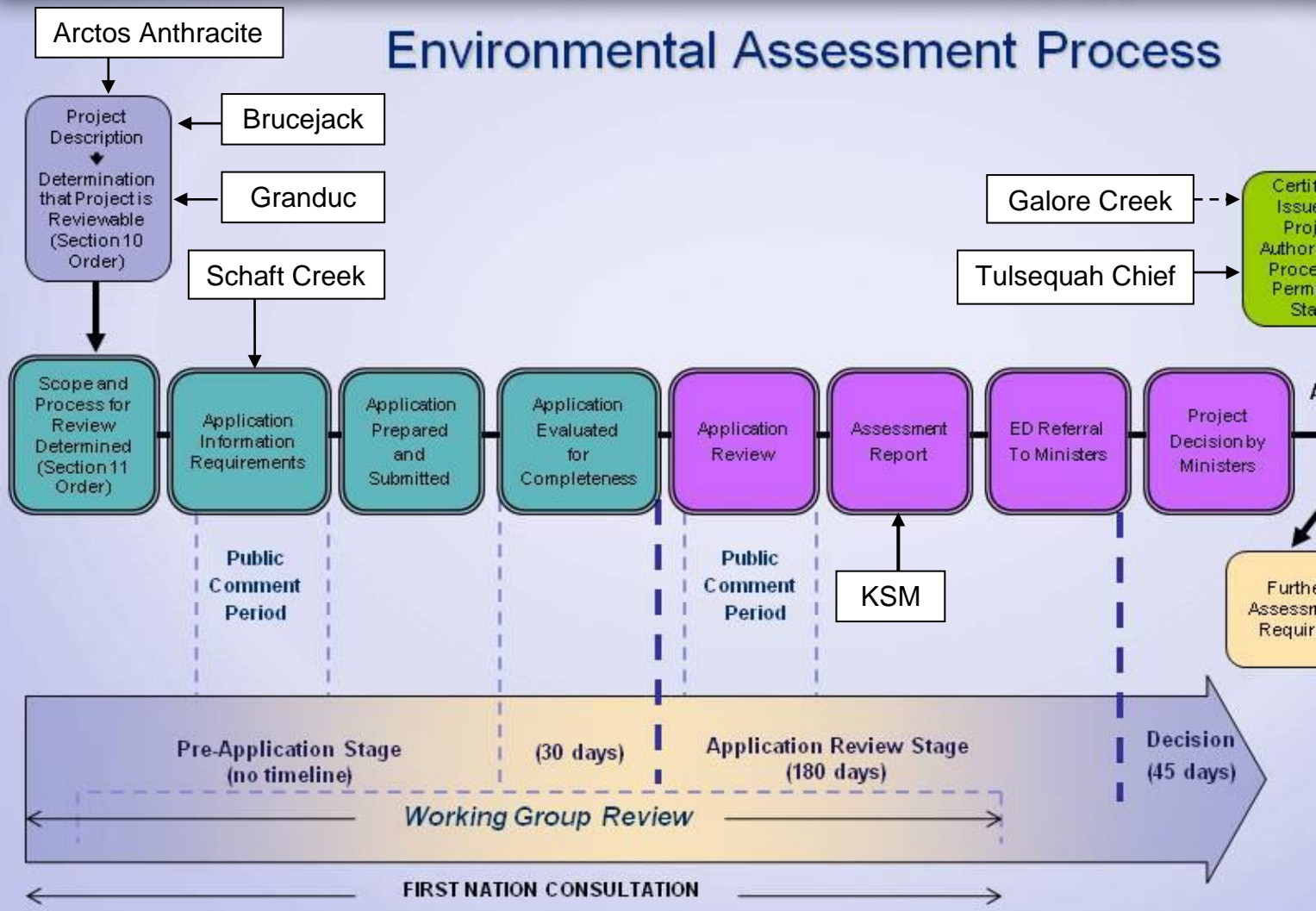
This example illustrates the opportunities and discretion available to agencies to go above and beyond statutory requirements without jeopardizing existing processes.

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Environmental Assessment Office



Environmental Assessment Process



KSM (Seabridge): The Application for an EA Certificate was submitted to the British Columbia Environmental Assessment Office (BC EAO) and the Canadian Environmental Assessment Agency (CEAA) in August 2013. EPA provided comments on the application in November 2013 and on Seabridge responses in January 2014. The next step is for EAO to refer the project to the Ministers for a decision on certification.

BruceJack (Pretivm Resources): Commenced an underground exploration program and the feasibility study is expected to be completed in the second quarter of 2013 (<http://www.pretivm.com/Projects/Bruce-Jack/Overview/default.aspx>). In late December, Pretivm submitted the project description for Brucejack to the BC EAO to initiate the permitting process (<http://www.petroleumnews.com/mnarch/07-02-3.html> [accessed 1/11/13])

Galore (Novagold/Teck): NovaGold received construction permits in June 2007 based on a 2006 feasibility study for the project, and during 2007 made significant progress on the access road, bridges and tunnel. In November 2007, NovaGold and Teck suspended construction activities at Galore Creek during a period of increasing capital costs. (http://www.novagold.com/upload/our-responsibilities/GaloreCreekProject_IR2010.pdf) The Pre-Feasibility Study was completed 2012 as well as some additional engineering. Novagold and Teck chose not to move forward with the Feasibility Study or permitting for now (personal communication, Ron Rimelman, Novagold)

Schaft Creek (CopperFox Metals): A feasibility study completed at the end of 2012 outlines plans for a conventional open pit mine at Schaft Creek with a mill rate of 130,000 metric tons per day for a minimum 21-year mine life based the deposit's proven and probable mineral reserves of 940.8 million tons containing 5.6 billion pounds of copper, 5.7 million ounces of gold, 363.5 million lbs of molybdenum and 51.7 million oz of silver. Copper Fox continued to move the joint Schaft Creek Mine Project Environmental Assessment Application and Environmental Impact Statement forward through the pre-application stage of the environmental assessment process during the past quarter (2Q – 2013). In July 2013, Copper Fox Metals Inc. and Teck Resources Ltd. came to an agreement for a partnership to further the exploration and development of Schaft Creek (<http://www.petroleumnews.com/mnarch/07-29-1.html> accessed 7/29/13).

Tulsequah: Chieftain released its Feasibility Study on December 12, 2012. A new 128 kilometer long, Forestry approved 5m wide road will be constructed from Atlin, BC, the mine site. The concentrates are anticipated to be trucked to the Skagway terminal facility in Alaska. The road passes through Taku River Tlingit First Nation land, and they and the Children of the Taku now oppose the mine's development. Chieftain mothballed the \$9 million water treatment plant in June 2012 to improve the facility's efficiency while it acquires additional funding. Chieftain partnered with a subsidiary of China-based CMAC Engineering. Recently, Chieftain said testing would begin for eventual restart of the treatment facility. Project construction is expected to commence in the Spring of 2013, subject to project financing (<http://juneauempire.com/local/2012-12-26/chieftain-releases-feasibility-study> [accessed 1/11/13] and December 12, 2012 press release).

Granduc: April 24, 2013 - Castle Resources Inc. granted stock options and filed the Preliminary Economic Assessment (http://www.infomine.com/index/properties/Granduc_Project.html)

Arctos Anthracite Joint Venture: proposes to develop and operate a new open pit coal mine in northwestern BC, approximately 90 km southeast of Iskut. The proposed Project would have a production capacity of approximately 8,200 tonnes per day of clean coal, and a mine footprint of about 4,000 ha, including an open pit of about 730 ha. The mine would produce about 3 million tonnes of coal per year for about 25 years. Transportation of the coal would be by rail to Ridley Terminals in Prince Rupert. The proposed Project would also include the construction of 147 km of rail line from the proposed mine site to the terminus of the existing railway. The proposed Project is located in the watershed of Didene Creek, a headwater tributary of the Spatsizi River, which is a tributary of the Stikine River.

All websites accessed January 10, 2013, unless otherwise noted.